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Ordering Code

■ Molding Inductors / Coating Inductors

S＊＊ 2520 2R2 M P S A

PRODUCT CODE

SPM：Molding Inductor
SIM：Insert Cylinder Molding Inductor
SAM：Molding Inductor(Auto Motive)
AIM：Insert Cylinder Molding Inductor (Auto Motive)
ACM：Double Molding Inductor(Auto Motive)
SPS：Coating Inductor(Superior Electric Property)
SPN：Coating Inductor(Normal)
SAS：Coating Inductor(AutoMotive)

DIMENSION (L X W) (mm)

Code	Dimension	Code	Dimension
2012	2.0 X 1.2	5050	5.0 X 5.0
2016	2.0 X 1.6	6060	6.0 X 6.0
2020	2.0 X 2.0	7070	7.0 X 7.0
2424	2.4 X 2.4	8080	8.0 X 8.0
2520	2.5 X 2.0	1010	10.0 X 10.0
3030	3.0 X 3.0	1313	13.9 X12.8
4040	4.0 X 4.0	1717	17.0 X 17.0
		2222	22.0 X 22.0

INUCTOR VAUEL

Code	R10	1R0	100	101	102
Impedance	0.1 uH	1.0 uH	10 uH	100 uH	1000 uH

TOLERANCE CODE

J：±5%　K：±10%　R：±15%　M：±20%　N：±30%
Q：±40% P：+50-20%　A：+30-15%

PACKAGING CODE

P：Embossed Reel (7”)
E：Embossed Reel (13”)

SPECIFICATION CODE

B：GHz Band
C：High Loading Current for Isat =20%
H：High Current with vertical mark
K：Standard with vertical mark-2
L：Light Loading Current
P：High Loading Current for Isat =30%
S：Standard
T：Specific Spec.
W：Standard + Variation Terminal
Z：Specific High

THICKNESS CODE (mm)

Code	Thick	Code	Thick	Code	Thick	Code	Thick
.	- -	**9**	0.9	**I**	2.4	**R**	6.0
1	0.1	**A**	1.0	**J**	2.5	**S**	6.5
2	0.2	**B**	1.1	**K**	2.8	**T**	2.6
3	0.3	**C**	1.2	**L**	3.0	**U**	7.0
4	0.4	**D**	1.4	**M**	3.5	**V**	9.0
5	0.5	**E**	1.5	**N**	4.0	**W**	5.5
6	0.6	**F**	1.6	**O**	10.0	**X**	13
7	0.7	**G**	1.8	**P**	4.5	**Y**	8.0
8	0.8	**H**	2.0	**Q**	5.0	**Z**	3.2

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Ordering Code

■ TLVR

SCT 4940 55N M E L R

PRODUCT CODE

SCT：TLVR (Trans-Inductor Voltage Regulator) Power Inductor

DIMENSION (L X W)

Code	Dimension	Code	Dimension
4940	4.9 x 4.0 mm	7548	7.5 x 4.8 mm
4980	4.9 x 8.0 mm	1008	10.0 x 8.0 mm
6050	6.0 x 5.0 mm	1046	10.0 x 4.6 mm
7050	7.0 x 5.0 mm	1260	12.0 x 6.0 mm

IMPEDANCE CODE

Code	10N	R10	1R0	100
Inductance(uH)	0.010	0.1	1.0	10

TOLERANCE CODE

M：±20%

PACKAGING CODE

E：Embossed Tape(13')

TYPE CODE

L：Light Loading Current

THICKNESS CODE(mm)

N：4.0mm

Q：5.0mm

R：6.0mm

1：11.0mm

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Product Range

- Molding Inductors
- General

| TCC | Series | Size (mm) | Thickness Max.(mm) | Inductance Range | | |

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range				
				0.1uH	1uH	10uH	100uH	
SPM Series Molding - General	SPM7070_BL	7.0*7.0	3	0.1 uH			47 uH	
	SPM7070_CL	7.0*7.0	3	0.1 uH			47 uH	
	SPM7070_EL	7.0*7.0	3		0.68 uH	4.7 uH		
	SPM7070_SN	7.0*7.0	4			6.8 uH	33 uH	
	SPM7070_BN	7.0*7.0	4		0.68 uH		47 uH	
	SPM7070_SQ	7.0*7.0	5		0.36 uH		68 uH	
	SPM7070_BQ	7.0*7.0	5		0.47 uH		47 uH	
	SPM8080_SN	8.0*8.0	4			1 uH	47 uH	
	SPM8080_BN	8.0*8.0	4		0.22 uH		47 uH	
	SPM8080_SW	8.0*8.0	5.5			2.2 uH	100 uH	
	SPM1010_SN	10.0*10.0	4			2.2 uH	68 uH	
	SPM1010_TN	10.0*10.0	4		0.47 uH	1.5 uH		
	SPM1010_BN	10.0*10.0	4	0.15 uH			100 uH	
	SPM1010_SW	10.0*10.0	5.5			10 uH	100 uH	
	SPM1313_SM	13.0*13.0	3.5			1 uH	2.2 uH	
	SPM1313_SQ	13.0*13.0	5			2.2 uH	22 uH	
	SPM1313_TQ	13.0*13.0	5		0.68 uH	1.5 uH		
	SPM1313_BQ	13.0*13.0	5		0.22 uH		68 uH	
	SPM1313_SR	13.0*13.0	6			2.2 uH		150 uH
	SPM1313_BR	13.0*13.0	6			4.7 uH		150 uH
	SPM1717_SU	17.0*17*0	7			1 uH	68 uH	
	SPM1717_BU	17.0*17.0	7			1.5 uH	100 uH	
	SPM2222_SX	22.0*22.0	13			3.3 uH	33 uH	
	SPM2222_BX	22.0*22.0	13			1 uH	100 uH	

● Industrial

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range				
				0.1uH	1uH	10uH	100uH	
SIM Series Molding - Industrial	SIM1313_SN	13.0*13.0	4				22 uH	100 uH
	SIM1313_SR	13.0*13.0	6				22 uH	100 uH

■ Automotive Application

● General Molding

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range				
				0.1uH	1uH	10uH	100uH	
SAM Series Molding Inductor (AutoMotive)	SAM4040_SC	4.0*4.0	1.2		0.33 uH	4.7 uH		
	SAM4040_SH	4.0*4.0	2		0.22 uH		10 uH	
	SAM5050_SE	5.0*5.0	1.5		0.22 uH		10 uH	
	SAM5050_SG	5.0*5.0	1.8			1 uH	10 uH	
	SAM5050_SH	5.0*5.0	2		0.22 uH		10 uH	
	SAM5050_SL	5.0*5.0	3			1 uH		22 uH
	SAM5050_SN	5.0*5.0	4				4.7 uH	33 uH
	SAM7070_SE	7.0*7.0	1.5		0.22 uH		10 uH	
	SAM7070_LE	7.0*7.0	1.5		0.22 uH		10 uH	
	SAM7070_SG	7.0*7.0	1.8	0.1 uH			10 uH	
	SAM7070_LG	7.0*7.0	1.8	0.1 uH			10 uH	
	SAM7070_SL	7.0*7.0	3	0.1 uH			47 uH	
	SAM7070_LL	7.0*7.0	3	0.1 uH			47 uH	

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TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range																	
				0.1uH				1uH				10uH				100uH					
SAM Series Molding Inductor (AutoMotive)	SAM7070_SN	7.0*7.0	4									6.8 uH				33 uH					
	SAM7070_LN	7.0*7.0	4									6.8 uH				33 uH					
	SAM7070_SQ	7.0*7.0	5			0.36 uH												68 uH			
	SAM7070_LQ	7.0*7.0	5			0.36 uH												68 uH			
	SAM8080_SN	8.0*8.0	4						1 uH									47 uH			
	SAM8080_SW	8.0*8.0	5.5								2.2 uH									100 uH	
	SAM1010_TN	10.0*10.0	4			0.47 uH					1.5 uH										
	SAM1010_SN	10.0*10.0	4								2.2 uH									100 uH	
	SAM1010_SW	10.0*10.0	5.5								3.3 uH									100 uH	
	SAM1313_TQ	13.0*13.0	5					0.68 uH			1.5 uH										
	SAM1313_SQ	13.0*13.0	5								2.2 uH					22 uH					
	SAM1313_SR	13.0*13.0	6								2.2 uH										150 uH
	SAM1313_LR	13.0*13.0	6								3.3 uH										150 uH
	SAM1717_SU	17.0*17.0	7								2.2 uH					15 uH					
	SAM2222_SX	22.0*22.0	13								3.3 uH										

● High Efficiency Molding

TCC	Series	Size (mm	Thickness Max.(mm)	Inductance Range																	
				0.1uH				1uH				10uH				100uH					
AIM Series Molding -Insert Cylinder (Auto Motive)	AIM1313_SN	13.00*13.00	4.00													22.00				100.00	
	AIM1313_SR	13.00*13.00	6.00													22.00				100.00	

● Double Molding

TCC	Series	Size (mm	Thickness Max.(mm)	Inductance Range																	
				0.1uH				1uH				10uH				100uH					
ACM Series Double Molding (Auto Motive)	ACM7070_SR	7.00*7.00	6.00									4.70				33.00					
	ACM1010_SY	10.00*10.00	8.00											10.00				47.00			
	ACM1313_SS	13.00*13.00	6.50											10.00		33.00					
	ACM1313_SY	13.00*13.00	8.00											10.00		15.00					
	ACM1313_SV	13.00*13.00	9.00													22.00	33.00				
	ACM1313_SO	13.00*13.00	10.00													22.00	33.00				

■ Coating Inductor

● Metal Coating

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range											
				0.1uH				1uH			10uH			100uH	
SPS Series Coating Inductor	SPS2016_CA	2.00*1.60	1.00				0.47			10.00					
	SPS2520_CA	2.50*2.00	1.00				0.47			10.00					
	SPS2520_CC	2.50*2.00	1.20				0.47			6.80					
	SPS3030_CA	3.00*3.00	1.00				0.47			10.00					
	SPS3030_CC	3.00*3.00	1.20				0.33			4.70					
	SPS4040_CA	4.00*4.00	1.00				0.47			10.00					
	SPS4040_CC	4.00*4.00	1.20				0.47			10.00					
	SPS4040_CH	4.00*4.00	2.10		0.33								22.00		

● Normal

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range											
				0.1uH				1uH			10uH			100uH	
SPN Series Coating Inductor Normal	SPN2016_SA	2.00*1.60	1.00				0.47			10.00					
	SPN2520_SA	2.50*2.00	1.00				0.50			10.00					
	SPN2520_SC	2.50*2.00	1.20		0.24					10.00					
	SPN3030_SA	3.00*3.00	1.10		2.20										
	SPN3030_CA	3.00*3.00	1.10				4.70			10.00					
	SPN3030_SC	3.00*3.00	1.20					1.00					47.00		
	SPN3030_SE	3.00*3.00	1.70					1.00					47.00		
	SPN4040_SC	4.00*4.00	1.20					1.00					22.00		
	SPN4040_SG	4.00*4.00	1.80					1.00					22.00		
	SPN4040_SL	4.00*4.00	3.00				0.68						33.00		
	SPN5050_SH	5.00*5.00	2.20				0.47						22.00		
	SPN5050_SN	5.00*5.00	4.00					1.00						100.00	
	SPN6060_SC	6.00*6.00	1.20							6.80		10.00			
	SPN6060_SH	6.00*6.00	2.00				0.80						22.00		
	SPN6060_SK	6.00*6.00	2.80						2.20						220.00
	SPN6060_SP	6.00*6.00	4.50					1.00					33.00		
	SPN8080_SN	8.00*8.00	4.20					1.00						100.00	

● Automotive

TCC	Series	Size (mm	Thickness Max.(mm)	Inductance Range											
				0.1uH				1uH			10uH			100uH	
SAS Series (Autmotive)	SAS4040_FH	4.00*4.00	2.00						22.00				47.00		

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Molding Inductors (SPM / SIM Series)

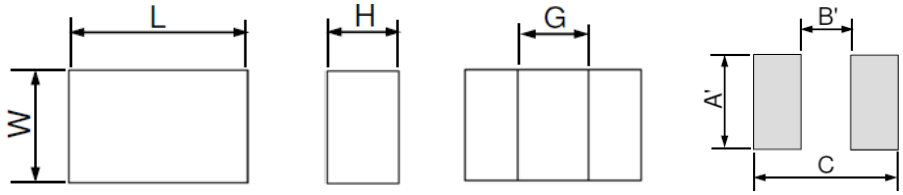
■ Feature

1. Magnetic shielded construction
2. Frequency range up to 3.0MHz
3. Higher rated current, capable handling at high current spikes

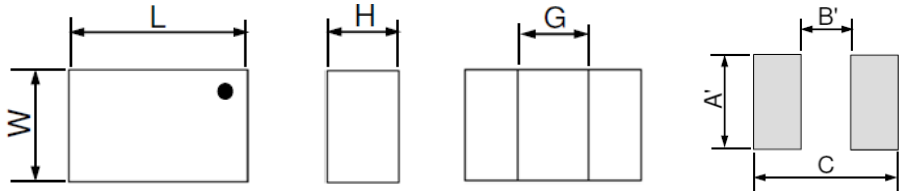
■ Application

1. Notebook / Desktop applications
2. VGA card applications
3. DC-DC Converter applications
4. Low profile, high current power supplies

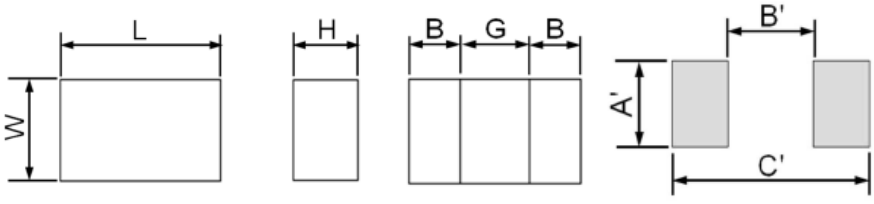
■ External Dimension



Series	L (mm)	W (mm)	H (mm)	G (Typ)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C (mm)	Reel	Amount(pcs)
SPM1608□□□□PL8*	1.6±0.2	0.8±0.2	0.8Max	0.6	0.9	0.5	1.7	7"	3,000
SPM2012□□□□PL6	2.0±0.2	1.2±0.2	0.65Max	0.5±0.2	1.3	0.5	2.1	7"	3,000
SPM2012□□□□PL8	2.0±0.2	1.2±0.2	0.8Max	0.5±0.2	1.3	0.5	2.1	7"	3,000
SPM2012□□□□PLA*	2.0±0.2	1.2±0.2	1.0Max	0.5±0.2	1.3	0.5	2.1	7"	3,000
SPM2016□□□□PL8*	2.0±0.2	1.6±0.2	0.8Max	0.6±0.2	1.7	0.5	2.1	7"	3,000
SPM2016□□□□PLA*	2.0±0.2	1.6±0.2	0.6±0.2	0.6±0.2	1.7	0.5	2.1	7"	3,000
SPM2016□□□□PLC*	2.0±0.2	1.6±0.2	1.2Max	0.6±0.2	1.7	0.5	2.1	7"	3,000
SPM2520□□□□PLA*	2.5±0.2	2.0±0.2	1.0Max	0.7±0.2	2.1	0.7	2.6	7"	3,000
SPM2520□□□□PLC*	2.5±0.2	2.0±0.2	1.2Max	0.7±0.2	2.1	0.7	2.6	7"	3,000
SPM2520□□□□PHC*	2.5±0.2	2.0±0.2	1.2max	0.7±0.3	2.1	0.6	2.6	7"	3,000
SPM4040□□□□ELA*	4.1±0.2	4.1±0.2	1.0Max	1.2±0.2	3.9	1.3	3.9	13"	3,000
SPM4040□□□□EDH*	4.1±0.2	4.1±0.2	2.0Max	1.2±0.2	4.1	1.3	4.1	13"	3,000
SPM4040□□□□ELL*	4.1±0.2	4.1±0.2	3.0Max	1.2±0.2	3.9	1.3	3.9	13"	3,000



Series	L (mm)	W (mm)	H (mm)	G (Typ)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C (mm)	Reel	Amount(pcs)
SPM2520□□□□PPA	2.5±0.2	1.2±0.2	1.0Max	0.6±0.2	2.0	1.2	2.8	7"	3,000
SPM2520□□□□PHA*	2.5±0.2	2.0±0.2	0.8±0.2	0.7±0.3	2.1	0.6	2.6	7"	3,000

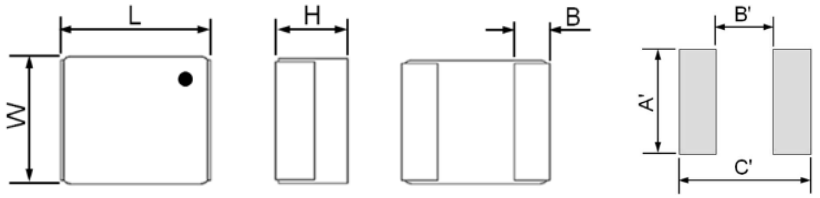


Series	L (mm)	W (mm)	H (mm)	B (Typ)	G (Typ)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C (mm)	Reel	Amount(pcs)
SPM2012□□□□PH8*	2.0±0.2	1.2±0.2	0.8Max	0.65	0.6	1.4	0.5	2.3	7"	3,000
SPM2016□□□□PHA*	2.0±0.2	1.6±0.2	0.8±0.2	0.7	0.6	1.7	0.5	2.1	7"	3,000

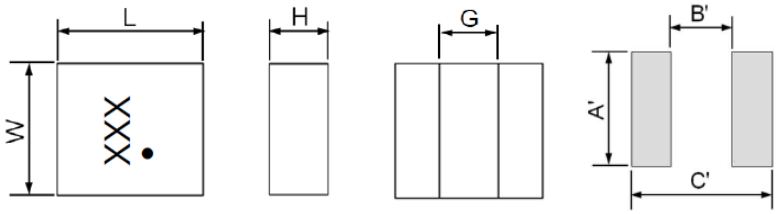
*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

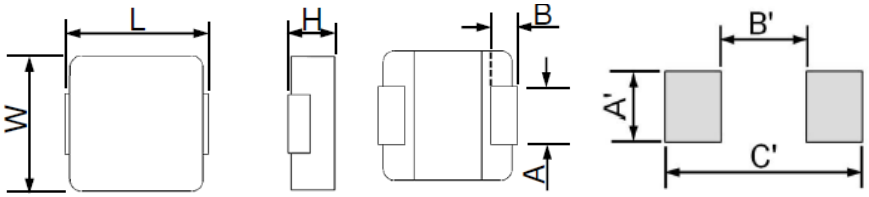
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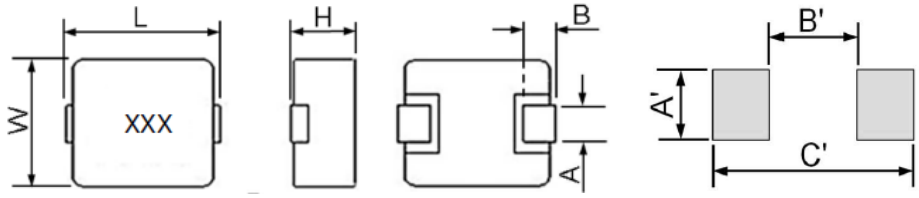
Series	L (mm)	W (mm)	H (mm)	B (mm)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM2016□□□□PPA	2.0±0.1	1.6±0.1	1.0max	0.5±0.2	1.6	0.7	2.0	7"	3,000
SPM2016□□□□PWA	2.0±0.2	1.6±0.2	1.0max	0.5±0.3	1.6	0.9	2.0	7"	3,000
SPM2520□□□□PPA	2.5±0.2	2.0±0.2	1.0max	0.6±0.2	2.0	1.2	2.8	7"	3,000
SPM2520□□□□PWA	2.5±0.2	2.0±0.2	1.0max	0.6±0.3	2.0	1.2	2.8	7"	3,000
SPM2520□□□□PWC	2.5±0.2	2.0±0.2	1.2max	0.6±0.3	2.0	1.2	2.8	7"	3,000



Series	L (mm)	W (mm)	H (mm)	G (Typ)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM4040□□□□ELC*	4.1±0.2	4.1±0.2	1.2max	1.4	4.1	1.3	4.1	13"	3,000



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM4040□□□□EBA	4.1±0.2	4.1±0.2	0.8±0.2	1.8±0.2	0.8±0.2	2.2	2.2	4.4	13"	5,000
SPM4040□□□□ESC	4.7±0.3	4.2±0.2	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	3,500
SPM4040□□□□ESE	4.7±0.3	4.2±0.2	1.3±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	3,500
SPM4040□□□□ESH	4.7±0.3	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	2,000
SPM4040□□□□ESL	4.7±0.3	4.2±0.2	2.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13"	2,000
SPM5050□□□□ECH*	5.7±0.3	5.2±0.2	1.8±0.2	2.0±0.3	1.2±0.2	2.5	2.2	6.0	13"	2,000

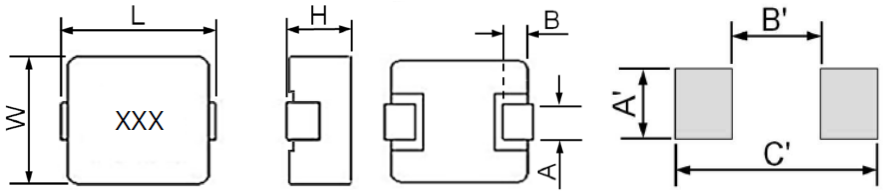


Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM7070□□□□EEL*	6.9±0.34	6.5±0.22	2.8±0.2	3.18±0.3	1.3±0.3	3.5	3.7	8.4	13"	1,500

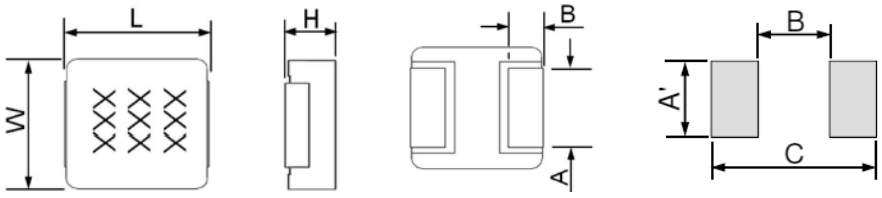
*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/



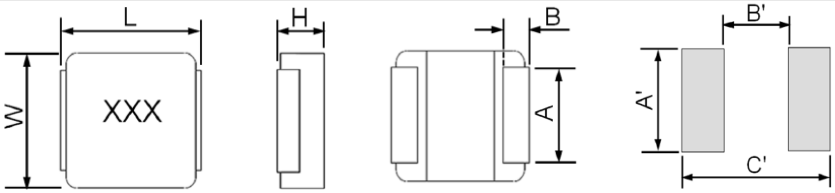
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM4040□□□□EBC	4.4±0.35	4.2±0.25	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13"	3,500
SPM4040□□□□EBH	4.4±0.35	4.2±0.25	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13"	3,000
SPM4040□□□□ECH*	4.4±0.35	4.2±0.25	2.8±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13"	3,000
SPM4040□□□□ESL*	4.7±0.3	4.2±0.2	2.8±0.2	2.0±0.3	0.8±0.3	2.5	2.2	5.2	13"	3,000
SPM5050□□□□ESE	5.7±0.3	5.2±0.2	1.3±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13"	3,000
SPM5050□□□□EBE	5.4±0.35	5.2±0.2	1.3±0.2	2.2±0.3	1.2±0.2	2.4	2.2	6.0	13"	3,000
SPM5050□□□□ESG	5.7±0.3	5.2±0.2	1.6±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13"	3,000
SPM5050□□□□EBG	5.4±0.35	5.2±0.2	1.6±0.2	2.2±0.3	1.2±0.2	2.5	2.2	6.0	13"	2,000
SPM5050□□□□ESH	5.7±0.3	5.2±0.2	1.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13"	3,000
SPM5050□□□□ESL	5.7±0.3	5.2±0.2	2.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13"	2,000
SPM5050□□□□EBL	5.4±0.35	5.2±0.2	2.8±0.2	2.2±0.3	1.2±0.2	2.5	2.2	6.0	13"	2,000
SPM7070□□□□ESE	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	2,000
SPM7070□□□□EBE	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	2,000
SPM7070□□□□ESG	7.2 ±0.3	6.6±0.2	1.6±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	2,000
SPM7070□□□□E_G*	7.0 ±0.3	6.6±0.2	1.6±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	2,000
SPM7070□□□□ESI	7.2±0.3	6.6±0.2	2.2±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	1,500
SPM7070□□□□EBI	7.0±0.3	6.6±0.2	2.2±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	1,500
SPM7070□□□□E_L	7.3±0.3	6.6±0.3	2.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	1,500
SPM7070□□□□ESL	7.3±0.3	6.6±0.3	2.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	1,500
SPM7070□□□□ESN	7.2±0.3	6.6±0.2	3.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	1,000
SPM7070□□□□EBN	7.0±0.3	6.6±0.2	3.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	1,000
SPM7070□□□□ESQ	7.2±0.3	6.6±0.2	4.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13"	1,000
SPM7070□□□□EBQ	7.0±0.3	6.6±0.2	4.8±0.2	3.0±0.3	1.6±0.3	3.5	3.7	8.4	13"	1,000
SPM8080□□□□ESN	8.65±0.25	8.0±0.2	3.8±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13"	800
SPM8080□□□□EBN	8.8±0.4	8.2±0.3	3.8±0.2	5.0±0.3	1.4±0.3	5.5	4.0	9.5	13"	800
SPM8080□□□□E_W*	8.7±0.35	8.2±0.3	5.3±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13"	500
SPM1010□□□□E_N	11.2±0.3	10.0±0.2	3.8±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13"	800
SPM1010□□□□EBN	11.5MAX	10.0±0.3	3.8±0.2	3.0±0.5	2.0±0.5	4.1	5.4	13.6	13"	500
SPM1010□□□□ESW	11.2±0.3	10.0±0.2	5.3±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13"	500
SPM1313□□□□ESM	13.9±0.3	12.8±0.2	3.3±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13"	500
SPM1313□□□□E_Q	13.9±0.3	12.8±0.2	4.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13"	500
SPM1313□□□□EBQ	13.45±0.35	12.6±0.3	4.8±0.2	R22~2R2 3.20±0.5 3R3~680 5.0±0.3	2.0±0.5	5.5	8.0	14.5	13"	500
SPM1313□□□□ESR	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13"	500
SPM1313□□□□EBR	13.45±0.35	12.6±0.3	5.8±0.2	5.0±0.3	2.0±0.5	5.5	8.0	14.5	13"	500
SIM1313□□□□ESN	13.9±0.3	12.8±0.2	3.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13"	500
SIM1313□□□□ESR	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13"	500



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C (mm)	Reel	Amount(pcs)
SPM7070□□□□EBA	6.1±0.3	6.1±0.3	0.8±0.2	4.0±0.3	1.75±0.3	4.5	2.8	7.5	13"	3,000

*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount(pcs)
SPM1717□□□□ESU	17.15±0.35	17.0±0.15	6.8±0.2	12.0±0.5	2.6±0.7	12.8	11.2	18.2	13"	300
SPM1717□□□□EBU	17.15±0.35	17.15MAX	7.0MAX	12.0±0.3	2.5±0.5	12.8	11.2	18.2	13"	200
SPM2222□□□□ESX	22.5±0.5	22.0±0.5	13.0Max	18.5±0.5	5.0±0.5	18.8	11.5	23.3	13"	50
SPM2222□□□□EBX	23.5±0.5	22.0±0.3	12.6±0.4	19.0±0.3	5.0±0.4	19.6	12.5	24.0	13"	80

*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

■ Part Numbers & Characteristics (General Purpose)

● SPM1608

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM1608R22MPL8	1.6	0.8	0.8	0.22	uH	±20%	33.0	40.0	3,400	3,000	5,500	5,000	1MHz/1V
SPM1608R24MPL8				0.24	uH	±20%	34.0	41.0	3,300	2,900	5,300	4,800	1MHz/1V
SPM1608R47MPL8				0.47	uH	±20%	80.0	100.0	2,600	2,300	4,100	3,700	1MHz/1V
SPM1608R47MPL8				0.56	uH	±20%	85.0	110.0	2,200	1,900	4,000	3,500	1MHz/1V
SPM1608R56MPL8				0.68	uH	±20%	110.0	130.0	2,100	1,900	3,300	3,000	1MHz/1V
SPM1608R68MPL8				1.00	uH	±20%	180.0	200.0	2,100	1,800	3,000	2,600	1MHz/1V
SPM16081R0MPL8				2.20	uH	±20%	220.0	260.0	1,400	1,200	1,500	1,300	1MHz/1V
SPM16084R7MPL8				4.700	uH	±20%	585.0	700.0	1,000	800	1,200	1,000	1MHz/1V
SPM1608100MPL8				10.00	uH	±20%	1450.0	1600.0	500	450	800	700	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPM2012

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM20121R0MPL6	2.00	1.20	0.65	1.00	uH	±20%	78.0	68.0	2,600	2,300	2,800	2,500	1MHz/1V
SPM20122R2MPL6				2.20	uH	±20%	215.0	230.0	1,700	1,400	1,800	1,500	1MHz/1V
SPM2012R47MPH8	2.00	1.20	0.80	0.47	uH	±20%	32.0	50.0	3,500	3,300	5,500	4,600	1MHz/1V
SPM20121R0MPH8				1.00	uH	±20%	55.0	70.0	3,300	2,400	4,00	3,500	1MHz/1V
SPM2012R24MPL8	2.00	1.20	0.80	0.24	uH	±20%	18.0	23.0	6,500	5,900	6,500	6,000	1MHz/1V
SPM2012R33MPL8				0.33	uH	±20%	33.0	45.0	4,300	4,000	5,200	4,800	1MHz/1V
SPM2012R47MPL8				0.47	uH	±20%	34.0	50.0	3,500	3,300	5,000	4,600	1MHz/1V
SPM2012R68MPL8				0.68	uH	±20%	50.0	60.0	3,700	3,300	4,200	3,700	1MHz/1V
SPM20121R0MPL8				1.00	uH	±20%	55.0	70.0	3,300	2,900	4,000	3,500	1MHz/1V
SPM20121R5MPL8				1.50	uH	±20%	118.0	135.0	2,200	1,900	3,000	2,500	1MHz/1V
SPM20122R2MPL8				2.20	uH	±20%	160.0	185.0	2,200	1,800	2,600	2,300	1MHz/1V
SPM20123R3MPL8				3.30	uH	±20%	253.0	300.0	1,800	1,500	1,900	1,600	1MHz/1V
SPM20124R7MPL8				4.70	uH	±20%	285.0	325.0	1,700	1,500	1,600	1,400	1MHz/1V
SPM2012R10MPLA	2.00	1.20	1.00	0.10	uH	±20%	8.0	13.0	7,500	7,000	8,500	8,000	1MHz/1V
SPM2012R22MPLA				0.22	uH	±20%	16.0	22.0	7,100	6,500	7,300	6,800	1MHz/1V
SPM2012R24MPLA				0.24	uH	±20%	17.0	23.0	7,000	6,400	7,200	6,700	1MHz/1V
SPM2012R33MPLA				0.33	uH	±20%	24.0	32.0	5,500	5,000	6,500	6,000	1MHz/1V
SPM2012R47MPLA				0.47	uH	±20%	29.0	36.0	4,700	4,300	5,500	5,000	1MHz/1V
SPM2012R68MPLA				0.68	uH	±20%	37.0	43.0	4,300	4,000	5,000	4,500	1MHz/1V
SPM20121R0MPLA				1.00	uH	±20%	55.0	63.0	3,900	3,500	4,000	3,500	1MHz/1V
SPM20121R5MPLA				1.50	uH	±20%	76.0	85.0	3,100	2,600	3,200	2,700	1MHz/1V
SPM20122R2MPLA				2.20	uH	±20%	135.0	150.0	2,000	1,700	2,700	2,400	1MHz/1V
SPM20123R3MPLA				3.30	uH	±20%	125.0	145.0	2,200	2,000	2,700	2,400	1MHz/1V
SPM20124R7MPLA				4.70	uH	±20%	210.0	260.0	1,800	1,500	2,200	1,800	1MHz/1V
SPM20126R8MPLA				6.80	uH	±20%	440.0	520.0	1,500	1,300	1,450	1,200	1MHz/1V
SPM2012100MPLA				10.00	uH	±20%	600.0	660.0	1,100	1,000	1,200	1,000	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPM2016

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM2016R10MPLA	2.00	1.60	0.80	0.10	uH	±20%	7.0	12.0	8,500	8,000	9,000	8,400	1MHz/1V
SPM2016R15MPLA				0.15	uH	±20%	8.0	14.0	7,600	7,000	8,700	8,000	1MHz/1V
SPM2016R22MPLA				0.22	uH	±20%	11.0	18.0	6,900	6,300	8,200	7,500	1MHz/1V
SPM2016R24MPLA				0.24	uH	±20%	12.0	19.0	6,800	6,200	8,000	7,400	1MHz/1V
SPM2016R33MPLA				0.33	uH	±20%	17.0	22.0	5,700	5,300	7,000	6,500	1MHz/1V
SPM2016R47MPLA				0.47	uH	±20%	22.0	25.0	5,500	5,000	6,300	5,500	1MHz/1V
SPM2016R68MPLA				0.68	uH	±20%	25.0	32.0	4,600	4,300	5,200	4,700	1MHz/1V
SPM20161R0MPLA				1.00	uH	±20%	35.0	43.0	4,500	4,100	4,600	4,200	1MHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM20161R5MPLA	2.00	1.60	0.80	1.50	uH	±20%	80.0	100.0	2,600	2,300	3,200	2,900	1MHz/1V
SPM20162R2MPLA				2.20	uH	±20%	120.0	130.0	2,500	2,100	3,000	2,800	1MHz/1V
SPM20163R3MPLA				3.30	uH	±20%	140.0	170.0	1,700	1,500	2,300	2,000	1MHz/1V
SPM20164R7MPLA				4.70	uH	±20%	190.0	220.0	1,600	1,400	2,000	1,800	1MHz/1V
SPM2016100MPLA				10.00	uH	±20%	483.0	580.0	1,000	700	1,400	1,100	1MHz/1V
SPM20162R2MPPA	2.00	1.60	1.00	2.20	uH	±20%	142.0	150.0	2,200	2,000	2,650	2,450	1MHz/1V
SPM2016R47MPWA	2.00	1.60	1.00	0.47	uH	±20%	33.0	40.0	3,500	3,150	4,400	4,000	1MHz/1V
SPM2016R68MPWA				0.68	uH	±20%	41.0	49.0	3,400	3,060	3,700	3,330	1MHz/1V
SPM20161R0MPWA				1.00	uH	±20%	60.0	69.0	3,060	2,260	2,900	2,610	1MHz/1V
SPM20161R5MPWA				1.50	uH	±20%	114.0	129.0	1,810	1,810	2,500	2,250	1MHz/1V
SPM20162R2MPWA				2.20	uH	±20%	135.0	150.0	1,500	1,500	1,900	1,710	1MHz/1V
SPM2016R24MPHA	2.00	1.60	1.00	0.24	uH	±20%	12.0	15.0	5,900	5,400	7,800	7,000	1MHz/1V
SPM2016R33MPHA				0.33	uH	±20%	16.0	19.0	5,700	5,200	7,600	6,800	1MHz/1V
SPM2016R47MPHA				0.47	uH	±20%	20.0	23.0	5,400	4,800	6,000	5,600	1MHz/1V
SPM2016R68MPHA				0.68	uH	±20%	33.0	38.0	4,800	4,400	5,200	4,800	1MHz/1V
SPM20161R0MPHA				1.00	uH	±20%	35.0	42.0	4,600	4,200	4,500	4,200	1MHz/1V
SPM20161R5MPHA				1.50	uH	±20%	61.0	68.0	3,600	3,200	3,500	3,000	1MHz/1V
SPM20162R2MPHA				2.20	uH	±20%	90.0	120.0	2,500	2,200	3,000	2,800	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃
※SPM2016___PLA、SPM2016___PLC Series Operating temperature -40 to +105℃

- SPM2520

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM2520R22MPLA	2.50	2.00	1.00	0.22	uH	±20%	12.0	17.0	6,800	6,500	8,600	7,900	1MHz/1V
SPM2520R24MPLA				0.24	uH	±20%	12.0	17.5	6,700	6,400	8,500	7,800	1MHz/1V
SPM2520R33MPLA				0.33	uH	±20%	13.0	19.0	6,500	6,200	7,600	7,200	1MHz/1V
SPM2520R47MPLA				0.47	uH	±20%	15.0	22.0	6,100	5,600	6,900	6,500	1MHz/1V
SPM2520R68MPLA				0.68	uH	±20%	23.0	27.0	5,600	5,000	5,900	5,500	1MHz/1V
SPM25201R0MPLA				1.00	uH	±20%	25.0	30.0	4,500	4,100	5,300	4,800	1MHz/1V
SPM25201R5MPLA				1.50	uH	±20%	45.0	55.0	3,400	3,000	4,300	3,900	1MHz/1V
SPM25202R2MPLA				2.20	uH	±20%	62.0	70.0	2,400	2,100	3,300	3,000	1MHz/1V
SPM25203R3MPLA				3.30	uH	±20%	68.0	100.0	2,500	2,100	2,800	2,500	1MHz/1V
SPM25204R7MPLA				4.70	uH	±20%	160.0	180.0	2,000	1,600	2,600	2,00	1MHz/1V
SPM2520648MPLA				6.80	uH	±20%	270.0	320.0	1,600	1,400	2,400	1,900	1MHz/1V
SPM2520100MPLA				10.00	uH	±20%	500.0	560.0	1,050	950	1,550	1,400	1MHz/1V
SPM25204R7MPPA	2.50	2.00	1.0	2.20	uH	±20%	89.0	102.0	2,400	2,200	3,400	3,000	1MHz/1V
SPM2520R22MPWA	2.50	2.00	1.00	0.22	uH	±20%	9.0	12.5	5,900	5,300	7,900	7,200	1MHz/1V
SPM2520R33MPWA				0.33	uH	±20%	21.0	26.0	4,400	4,000	6,600	6,000	1MHz/1V
SPM2520R47MPWA				0.47	uH	±20%	27.0	32.0	3,900	3,510	5,000	4,500	1MHz/1V
SPM2520R68MPWA				0.68	uH	±20%	37.0	44.0	3,400	3,060	4,300	3,870	1MHz/1V
SPM25201R0MPWA				1.00	uH	±20%	45.0	54.0	3,000	2,700	3,500	3,150	1MHz/1V
SPM25201R5MPWA				1.50	uH	±20%	76.0	91.0	2,500	2,250	2,600	2,340	1MHz/1V
SPM25202R2MPWA				2.20	uH	±20%	99.0	119.0	2,300	2,070	2,400	2,160,	1MHz/1V
SPM25204R7MPWA				4.70	uH	±20%	220.0	262.0	1,360	1,220	1,800	1,620	1MHz/1V
SPM2520R24MPHA	2.50	2.00	1.00	0.24	uH	±20%	8.5	11.0	8,500	7,700	8,800	8,400	1MHz/1V
SPM2520R33MPHA				0.33	uH	±20%	13.0	16.0	7,500	7,000	8,500	8,000	1MHz/1V
SPM2520R47MPHA				0.47	uH	±20%	16.0	20.0	5,000	4,700	7,000	6,500	1MHz/1V
SPM25201R0MPHA				1.00	uH	±20%	30.0	33.0	4,700	4,500	5,400	5,000	1MHz/1V
SPM25201R5MPHA				1.50	uH	±20%	37.0	42.0	4,100	3,600	4,000	3,700	1MHz/1V
SPM25202R2MPHA				2.20	uH	±20%	57.0	65.0	3,300	2,600	3,500	3,200	1MHz/1V
SPM25203R3MPHA				3.30	uH	±20%	86.0	100.0	2,200	2,000	2,600	2,500	1MHz/1V
SPM2520R47MPWC	2.50	2.00	1.2	0.47	uH	±20%	21.0	25.0	4,600	4,180	5,300	4,950	1MHz/1V
SPM25201R0MPWC				1.00	uH	±20%	41.0	49.0	3,500	3,180	4,400	4,040	1MHz/1V
SPM25201R5MPWC				1.50	uH	±20%	64.0	77.0	2,500	2,270	3,200	2,910	1MHz/1V
SPM25202R2MPWC				2.20	uH	±20%	85.0	98.0	2,270	2,060	3,000	2,730	1MHz/1V
SPM25204R7MPWC				4.70	uH	±20%	196.0	235.0	1,610	1,400	1,900	1,580	1MHz/1V
SPM2520R47MPHC	2.50	2.00	1.2	0.47	uH	±20%	16.0	19.0	5,500	5,000	7,500	7,000	1MHz/1V
SPM25201R0MPHC				1.00	uH	±20%	30.0	39.6	4,500	4,200	5,600	5,200	1MHz/1V
SPM25201R5MPHC				1.50	uH	±20%	35.0	42.0	4,100	3,600	4,200	3,800	1MHz/1V
SPM25202R2MPHC				2.20	uH	±20%	53.0	63.0	3,300	3,000	3,800	3,400	1MHz/1V
SPM25204R7MPHC				4.70	uH	±20%	130.0	150.0	1,800	1,500	2,600	2,200	1MHz/1V

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM2520R10MPLC	2.50	2.00	1.2	0.10	uH	±20%	6.0	10.0	12,000	10,500	13,500	12,500	1MHz/1V
SPM2520R15MPLC				0.15	uH	±20%	7.0	11.0	11,500	10,000	13,000	12,000	1MHz/1V
SPM2520R22MPLC				0.22	uH	±20%	9.0	14.0	8,200	7,600	9,600	9,000	1MHz/1V
SPM2520R24MPLC				0.24	uH	±20%	10.0	15.0	8,000	7,500	9,300	8,800	1MHz/1V
SPM2520R33MPLC				0.33	uH	±20%	11.0	17.0	6,800	6,400	8,300	7,800	1MHz/1V
SPM2520R47MPLC				0.47	uH	±20%	13.0	19.0	6,500	6,000	7,500	7,000	1MHz/1V
SPM2520R56MPLC				0.56	uH	±20%	16.0	20.0	6,500	5,800	7,000	6,500	1MHz/1V
SPM2520R68MPLC				0.68	uH	±20%	17.0	23.0	6,300	5,500	6,500	6,000	1MHz/1V
SPM2520R82MPLC				0.82	uH	±20%	19.0	24.0	5,800	5,300	6,500	5,800	1MHz/1V
SPM25201R0MPLC				1.00	uH	±20%	35.0	42.0	4,000	3,600	5,600	5,000	1MHz/1V
SPM25201R5MPLC				1.50	uH	±20%	44.0	50.0	3,700	3,200	4,500	4,100	1MHz/1V
SPM25202R2MPLC				2.20	uH	±20%	55.0	65.0	3,000	2,700	3,800	3,300	1MHz/1V
SPM25203R3MPLC				3.30	uH	±20%	80.0	97.0	2,300	1,800	3,000	2,700	1MHz/1V
SPM25204R7MPLC				4.70	uH	±20%	150.0	170.0	1,800	1,500	2,400	2,100	1MHz/1V
SPM25206R8MPLC				6.80	uH	±20%	245.0	270.0	1,600	1,400	2,000	1,700	1MHz/1V
SPM2520100MPLC				10.00	uH	±20%	330.0	400.0	1,200	1,050	1,600	1,450	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃
※SPM2520___PLA、SPM2520___PLC Series Operating temperature -40 to +105℃

● SPM3030

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM30306R8MEKA	3.00	3.00	1.0	6.80	uH	±20%	280.0	340.0	1,300	1,100	1,700	1,500	1MHz/1V
SPM3030100MEKA				10.00	uH	±20%	330.0	400.0	1,100	1,000	1,400	1,200	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃

● SPM4040

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM40402R2MEBA	4.10	4.10	1.00	2.20	uH	±20%	85.0	100.0	3,400	3,000	4,300	3,500	100KHz/1V
SPM40404R7MEBA				4.70	uH	±20%	140.0	160.0	2,600	2,300	2,500	2,100	100KHz/1V
SPM40406R8MEBA				6.80	uH	±20%	210.0	255.0	2,000	1,800	2,200	1,850	100KHz/1V
SPM4040100MEBA				10.00	uH	±20%	280.0	336.0	1,500	1,300	1,800	1,600	100KHz/1V
SPM4040100MELA	4.10	4.10	1.00	10.00	uH	±20%	220.0	280.0	2,500	2,000	2,200	2,000	100KHz/1V
SPM4040R33MESC	4.10	4.10	1.20	0.33	uH	±20%	14.0	16.5	- -	6,500	- -	9,000	100KHz/1V
SPM4040R47MESC				0.47	uH	±20%	19.0	21.0	- -	6,000	- -	6,800	100KHz/1V
SPM4040R68MESC				0.68	uH	±20%	32.0	36.0	- -	4,500	- -	6,000	100KHz/1V
SPM40401R0MESC				1.00	uH	±20%	43.0	47.0	- -	4,200	- -	5,200	100KHz/1V
SPM40401R5MESC				1.50	uH	±20%	68.0	75.0	- -	3,250	- -	4,000	100KHz/1V
SPM40402R2MESC				2.20	uH	±20%	79.4	83.5	- -	2,750	- -	3,500	100KHz/1V
SPM40403R3MESC				3.30	uH	±20%	120.0	138.0	- -	2,300	- -	3,000	100KHz/1V
SPM40404R7MESC				4.70	uH	±20%	175.0	195.0	- -	1,800	- -	2,800	100KHz/1V
SPM4040R15MEBC	4.10	4.10	1.20	0.15	uH	±20%	7.5	9.0	- -	7,500	- -	15,000	100KHz/1V
SPM4040R22MEBC				0.22	uH	±20%	9.0	11.0	- -	7,000	- -	11,000	100KHz/1V
SPM4040R33MEBC				0.33	uH	±20%	16.0	19.0	- -	6,500	- -	8,400	100KHz/1V
SPM4040R47MEBC				0.47	uH	±20%	19.0	21.0	- -	6,000	- -	6,800	100KHz/1V
SPM4040R68MEBC				0.68	uH	±20%	32.0	36.0	- -	4,700	- -	6,000	100KHz/1V
SPM40401R0MEBC				1.00	uH	±20%	43.0	47.0	- -	4,500	- -	5,500	100KHz/1V
SPM40401R5MEBC				1.50	uH	±20%	68.0	75.0	- -	3,250	- -	4,000	100KHz/1V
SPM40402R2MEBC				2.20	uH	±20%	79.4	83.5	- -	2,750	- -	3,000	100KHz/1V
SPM40404R7MEBC				4.70	uH	±20%	175.0	195.0	- -	1,800	- -	2,200	100KHz/1V
SPM4040R47MELC	4.10	4.10	1.20	0.47	uH	±20%	11.5	14.0	9,000	8,500	12,000	11,500	100KHz/1V
SPM4040R60MELC				0.60	uH	±20%	12.0	14.5	8,500	8,000	9,000	8,500	100KHz/1V
SPM4040R68MELC				0.68	uH	±20%	15.0	18.0	8,500	7,500	10,000	9,000	100KHz/1V
SPM40401R0MELC				1.00	uH	±20%	21.0	25.0	6,300	5,500	11,000	10,000	100KHz/1V
SPM40401R5MELC				1.50	uH	±20%	29.0	34.5	6,000	5,000	8,000	7,000	100KHz/1V
SPM40402R2MELC				2.20	uH	±20%	45.0	55.0	5,000	4,500	6,500	6,000	100KHz/1V
SPM40403R3MELC				3.30	uH	±20%	67.0	80.0	4,500	4,000	5,500	5,000	100KHz/1V

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM40404R7MELC	4.10	4.10	1.20	4.70	uH	±20%	90.0	110.0	3,500	3,000	5,000	4,500	100KHz/1V
SPM40405R6MELC				5.60	uH	±20%	116.0	140.0	3,000	2,500	4,500	4,000	100KHz/1V
SPM40406R8MELC				6.80	uH	±20%	132.0	160.0	2,800	2,300	3,800	3,500	100KHz/1V
SPM4040100MELC				10.00	uH	±20%	200.0	235.0	2,500	2,000	2,800	2,500	100KHz/1V
SPM4040220MELC				22.00	uH	±20%	420.0	480.0	1,500	1,200	1,800	1,500	100KHz/1V
SPM40404R7MESE	4.10	4.10	1.50	0.47	uH	±20%	12.5	14.5	6,000	5,200	10,000	8,500	100KHz/1V
SPM40401R0MESE				1.00	uH	±20%	31.0	38.0	6,000	4,300	8,900	6,700	100KHz/1V
SPM4040R22MESH	4.10	4.10	2.00	0.22	uH	±20%	6.0	6.6	- -	9,000	- -	12,500	100KHz/1V
SPM4040R47MESH				0.47	uH	±20%	12.5	14.0	- -	7,000	- -	9,500	100KHz/1V
SPM4040R68MESH				0.68	uH	±20%	19.4	21.0	- -	5,200	- -	8,000	100KHz/1V
SPM40401R0MESH				1.00	uH	±20%	24.0	27.0	- -	4,500	- -	7,000	100KHz/1V
SPM40401R5MESH				1.50	uH	±20%	38.0	46.0	- -	4,000	- -	6,000	100KHz/1V
SPM40402R2MESH				2.20	uH	±20%	52.0	58.0	- -	3,000	- -	5,000	100KHz/1V
SPM40403R3MESH				3.30	uH	±20%	74.0	87.0	- -	2,500	- -	4,000	100KHz/1V
SPM40404R7MESH				4.70	uH	±20%	92.0	105.0	- -	2,200	- -	3,000	100KHz/1V
SPM40406R8MESH				6.80	uH	±20%	162.0	178.0	- -	2,000	- -	2,100	100KHz/1V
SPM4040100MESH				10.00	uH	±20%	256.0	282.0	- -	1,600	- -	1,800	100KHz/1V
SPM4040R10MEBH	4.10	4.10	2.00	0.10	uH	±20%	3.4	4.0	- -	13,000	- -	22,000	100KHz/1V
SPM4040R22MEBH				0.22	uH	±20%	6.0	6.6	- -	9,500	- -	12,500	100KHz/1V
SPM4040R33MEBH				0.33	uH	±20%	9.8	11.0	- -	10,000	- -	12,000	100KHz/1V
SPM4040R47MEBH				0.47	uH	±20%	12.5	14.0	- -	7,500	- -	9,500	100KHz/1V
SPM4040R56MEBH				0.56	uH	±20%	14.0	16.0	- -	7,000	- -	9,000	100KHz/1V
SPM4040R68MEBH				0.68	uH	±20%	16.5	18.0	- -	7,000	- -	8,000	100KHz/1V
SPM40401R0MEBH				1.00	uH	±20%	24.0	27.0	- -	6,000	- -	7,000	100KHz/1V
SPM40401R2MEBH				1.20	uH	±20%	22.0	27.0	- -	6,000	- -	6,500	100KHz/1V
SPM40401R5MEBH				1.50	uH	±20%	38.0	46.0	- -	5,000	- -	5,500	100KHz/1V
SPM40402R2MEBH				2.20	uH	±20%	52.0	58.0	- -	4,500	- -	5,000	100KHz/1V
SPM40403R3MEBH				3.30	uH	±20%	74.0	87.0	- -	3,300	- -	3,500	100KHz/1V
SPM40404R7MEBH				4.70	uH	±20%	92.0	105.0	- -	2,800	- -	3,000	100KHz/1V
SPM40406R8MEBH				6.80	uH	±20%	160.0	175.0	- -	2,400	- -	2,500	100KHz/1V
SPM4040100MEBH				10.00	uH	±20%	256.0	282.0	- -	1,600	- -	2,000	100KHz/1V
SPM4040R33MECH	4.10	4.10	2.00	0.33	uH	±20%	7.5	8.6	- -	10,000	- -	18,000	100KHz/1V
SPM4040R47MECH				0.47	uH	±20%	12.0	14.0	- -	8,000	- -	12,000	100KHz/1V
SPM4040R68MECH				0.68	uH	±20%	16.5	19.0	- -	7,000	- -	10,000	100KHz/1V
SPM40401R0MECH				1.00	uH	±20%	23.0	27.0	- -	5,000	- -	8,500	100KHz/1V
SPM40401R5MECH				1.50	uH	±20%	36.5	42.0	- -	4,500	- -	7,000	100KHz/1V
SPM40402R2MECH				2.20	uH	±20%	53.0	61.0	- -	4,000	- -	6,000	100KHz/1V
SPM40403R3MECH				3.30	uH	±20%	66.0	76.0	- -	3,500	- -	4,000	100KHz/1V
SPM40404R7MECH				4.70	uH	±20%	91.0	105.0	- -	2,600	- -	3,500	100KHz/1V
SPM40406R8MECH				6.80	uH	±20%	150.0	172.0	- -	2,100	- -	2,800	100KHz/1V
SPM4040100MECH				10.00	uH	±20%	211.0	243.0	- -	1,800	- -	2,300	100KHz/1V
SPM4040R10MEDH	4.10	4.10	2.00	0.10	uH	±20%	1.2	1.6	34,000	30,500	35,000	30,000	100KHz/1V
SPM4040R12MEDH				0.12	uH	±20%	1.3	1.7	34,000	30,500	31,000	29,000	100KHz/1V
SPM4040R22MEDH				0.22	uH	±20%	2.0	2.7	20,000	19,000	20,000	19,000	100KHz/1V
SPM4040R33MEDH				0.33	uH	±20%	2.8	3.3	23,000	20,500	19,000	18,000	100KHz/1V
SPM4040R47MEDH				0.47	uH	±20%	4.0	4.8	17,000	16,000	15,200	14,200	100KHz/1V
SPM4040R56MEDH				0.56	uH	±20%	4.7	5.6	18,500	16,500	14,000	13,000	100KHz/1V
SPM4040R68MEDH				0.68	uH	±20%	5.5	6.2	14,000	13,000	13,000	12,000	100KHz/1V
SPM4040R82MEDH				0.82	uH	±20%	6.8	8.0	13,000	12,000	12,000	11,000	100KHz/1V
SPM40401R2MEDH				1.20	uH	±20%	10.5	12.0	10,000	9,000	10,000	9,000	100KHz/1V
SPM40402R2MEDH				2.20	uH	±20%	30.0	36.0	6,500	6,s000	9,500	8,500	100KHz/1V
SPM40403R3MEDH				3.30	uH	±20%	24.0	28.0	8,000	6,500	5,600	4,700	100KHz/1V
SPM40404R7MEDH				4.70	uH	±20%	47.0	58.0	5,000	4,000	6,300	5,500	100KHz/1V
SPM4040100MEDH				10.00	uH	±20%	113.0	135.0	3,700	3,000	4,900	4,000	100KHz/1V
SPM4040150MEDH				15.00	uH	±20%	210.0	250.0	2,300	1,700	3,500	3,000	100KHz/1V
SPM4040220MEDH				22.00	uH	±20%	275.0	330.0	1,800	1,300	2,900	2,300	100KHz/1V

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (MΩ)		Heat Rating Current Idc (Ma)		Saturation Current Isat (Ma)		Measuring Condition
	Length	Width	Max	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM40404R7MESL	4.10	4.10	3.00	4.70	uH	±20%	53.5	61.5	- -	3,500	- -	4,000	100KHz/1V
SPM4040100MESL				10.00	uH	±20%	145.0	160.0	- -	2,500	- -	2,800	100KHz/1V
SPM4040R68MELL	4.10	4.10	3.00	0.68	uH	±20%	3.0	10.0	9,500	8,000	17,000	15,000	100KHz/1V
SPM40401R5MELL				1.50	uH	±20%	15.0	18.0	6,500	6,000	12,500	11,000	100KHz/1V
SPM40404R7MELL				4.70	uH	±20%	41.0	46.0	4,300	4,000	7,000	6,000	100KHz/1V
SPM40406R8MELL				6.80	uH	±20%	51.0	62.0	4,200	3,800	6,300	5,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃
※SPM4040___ELC 、SPM4040___ECH、SPM4040___EDH Series Operating temperature -55 to +125℃
※SPM4040___EDH Series Operating temperature -40 to +105℃

● SPM5050

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM5050R22NESE	5.70	5.20	1.50	0.22	uH	±30%	5.8	7.0	- -	10,000	- -	17,000	100KHz/1V
SPM50501R0MESE				1.00	uH	±20%	20.0	23.0	- -	6,500	- -	9,000	100KHz/1V
SPM50501R5MESE				1.50	uH	±20%	46.0	53.0	- -	4,200	- -	7,000	100KHz/1V
SPM50502R2MESE				2.20	uH	±20%	58.0	64.0	- -	3,300	- -	6,000	100KHz/1V
SPM50503R3MESE				3.30	uH	±20%	70.0	80.0	- -	3,200	- -	4,500	100KHz/1V
SPM50504R7MESE				4.70	uH	±20%	103.0	115.0	- -	3,000	- -	4,000	100KHz/1V
SPM50506R8MESE				6.80	uH	±20%	167.0	180.0	- -	2,500	- -	3,200	100KHz/1V
SPM5050100MESE				10.00	uH	±20%	220.0	246.0	- -	2,000	- -	3,000	100KHz/1V
SPM5050R47MEBE	5.40	5.20	1.50	0.47	uH	±20%	11.5	13.0	9,500	8,700	13,000	12,000	100KHz/1V
SPM5050R68MEBE				0.68	uH	±20%	13.4	15.5	9,000	8,100	11,200	9,500	100KHz/1V
SPM50501R0MEBE				1.00	uH	±20%	20.0	23.0	6,500	5,800	9,500	8,000	100KHz/1V
SPM50503R3MEBE				3.30	uH	±20%	63.0	72.0	3,300	3,000	4,500	4,000	100KHz/1V
SPM50504R7MEBE				4.70	uH	±20%	92.0	106.0	3,000	2,600	4,200	3,700	100KHz/1V
SPM5050R47MESG	5.70	5.20	1.80	0.47	uH	±20%	8.0	10.0	- -	10,500	- -	15,500	100KHz/1V
SPM5050R68MESG				0.68	uH	±20%	12.0	13.8	- -	8,900	- -	11,200	100KHz/1V
SPM50501R0MESG				1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,500	100KHz/1V
SPM50501R5MESG				1.50	uH	±20%	23.0	26.0	- -	7,500	- -	8,000	100KHz/1V
SPM50502R2MESG				2.20	uH	±20%	31.0	35.0	- -	5,000	- -	6,500	100KHz/1V
SPM50504R7MESG				4.70	uH	±20%	78.0	85.0	- -	3,500	- -	4,000	100KHz/1V
SPM50506R8MESG				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,400	100KHz/1V
SPM5050100MESG				10.00	uH	±20%	140.0	155.0	- -	2,500	- -	3,000	100KHz/1V
SPM5050R47MEBG	5.40	5.20	1.80	0.47	uH	±20%	7.5	9.0	- -	10,500		15,500	100KHz/1V
SPM5050R56MEBG				0.56	uH	±20%	8.5	10.0	- -	9,500	- -	15,000	100KHz/1V
SPM5050R68MEBG				0.68	uH	±20%	12.0	13.8	- -	8,900	- -	11,200	100KHz/1V
SPM50501R0MEBG				1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,000	100KHz/1V
SPM50501R5MEBG				1.50	uH	±20%	23.0	26.0	- -	7,500	- -	8,000	100KHz/1V
SPM50502R2MEBG				2.20	uH	±20%	31.0	35.0	- -	5,000	- -	6,500	100KHz/1V
SPM50503R3MEBG				3.30	uH	±20%	51.0	58.0	- -	4,500	- -	5,000	100KHz/1V
SPM50504R7MEBG				4.70	uH	±20%	78.0	85.0	- -	3,500	- -	4,000	100KHz/1V
SPM50506R8MEBG				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,400	100KHz/1V
SPM5050100MEBG				10.00	uH	±20%	140.0	155.0	- -	2,500	- -	3,000	100KHz/1V
SPM5050R22MESH	5.70	5.20	2.00	0.22	uH	±20%	4.1	4.5	- -	12,000	- -	20,000	100KHz/1V
SPM5050R24MESH				0.24	uH	±20%	5.0	5.8	- -	11,700	- -	18,500	100KHz/1V
SPM5050R33MESH				0.33	uH	±20%	5.5	5.9	- -	11,500	- -	16,000	100KHz/1V
SPM5050R47MESH				0.47	uH	±20%	8.0	10.0	- -	10,500	- -	15,500	100KHz/1V
SPM5050R56MESH				0.56	uH	±20%	8.2	10.0	- -	10,000	- -	13,000	100KHz/1V
SPM5050R68MESH				0.68	uH	±20%	10.5	13.0	- -	9,500	- -	12,000	100KHz/1V
SPM50501R0MESH				1.00	uH	±20%	15.0	17.0	- -	8,000	- -	9,500	100KHz/1V
SPM50501R2MESH				1.20	uH	±20%	19.5	22.5	- -	7,000	- -	9,000	100KHz/1V
SPM50501R5MESH				1.50	uH	±20%	24.2	27.5	- -	6,000	- -	8,500	100KHz/1V
SPM50502R2MESH				2.20	uH	±20%	30.0	35.0	- -	5,000	- -	6,500	100KHz/1V
SPM50503R3MESH				3.30	uH	±20%	49.0	55.0	- -	4,500	- -	5,500	100KHz/1V
SPM50504R7MESH				4.70	uH	±20%	75.3	81.3	- -	3,500	- -	4,500	100KHz/1V
SPM50505R6MESH				5.60	uH	±20%	85.2	92.0	- -	3,000	- -	4,000	100KHz/1V
SPM50506R8MESH				6.80	uH	±20%	107.0	120.0	- -	2,800	- -	3,600	100KHz/1V
SPM5050100MESH				10.00	uH	±20%	140.0	155.0	- -	2,400	- -	3,400	100KHz/1V

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM5050R10MECH	5.70	5.20	2.00	0.10	uH	± 20%	3.5	4.0	- -	18,000	- -	45,000	100KHz/1V
SPM5050R15MECH				0.15	uH	± 20%	4.0	4.6	- -	16,000	- -	27,000	100KHz/1V
SPM5050R22MECH				0.22	uH	± 20%	4.8	5.5	- -	15,000	- -	25,000	100KHz/1V
SPM5050R33MECH				0.33	uH	± 20%	6.4	7.3	- -	12,000	- -	21,300	100KHz/1V
SPM5050R47MECH				0.47	uH	± 20%	7.5	8.6	- -	11,500	- -	18,000	100KHz/1V
SPM5050R68MECH				0.68	uH	± 20%	10.5	12.4	- -	10,000	- -	12,800	100KHz/1V
SPM50501R0MECH				1.00	uH	± 20%	17.5	20.0	- -	7,000	- -	13,700	100KHz/1V
SPM50501R5MECH				1.50	uH	± 20%	6.5	30.5	- -	5,500	- -	9,800	100KHz/1V
SPM50502R2MECH				2.20	uH	± 20%	43.5	50.0	- -	4,200	- -	9,000	100KHz/1V
SPM50503R3MECH				3.30	uH	± 20%	66.0	76.0	- -	3,300	- -	7,300	100KHz/1V
SPM50504R7MECH				4.70	uH	± 20%	101.0	116.0	- -	2,800	- -	5,000	100KHz/1V
SPM50506R8MECH				6.80	uH	± 20%	130.5	150.0	- -	2,400	- -	3,800	100KHz/1V
SPM50508R2MECH				8.20	uH	± 20%	148.5	171.0	- -	2,300	- -	3,500	100KHz/1V
SPM5050100MECH				10.00	uH	± 20%	174.0	199.0	- -	2,300	- -	3,400	100KHz/1V
SPM5050150MECH				15.00	uH	± 20%	235.0	270.0	- -	1,900	- -	2,800	100KHz/1V
SPM5050220MECH				22.00	uH	± 20%	339.0	390.0	- -	1,500	- -	1,800	100KHz/1V
SPM50501R0MESL	5.70	5.20	3.00	1.00	uH	±20%	13.0	14.0	- -	7,000	- -	11,000	100KHz/1V
SPM50501R5MESL				1.50	uH	±20%	18.0	25.0	- -	6,200	- -	9,500	100KHz/1V
SPM50502R2MESL				2.20	uH	±20%	29.0	35.0	- -	5,500	- -	9,000	100KHz/1V
SPM50503R3MESL				3.30	uH	±20%	32.0	38.0	- -	5,000	- -	7,000	100KHz/1V
SPM50504R7MESL				4.70	uH	±20%	50.0	60.0	- -	4,400	- -	6,000	100KHz/1V
SPM50506R8MESL				6.80	uH	±20%	75.0	88.5	- -	3,400	- -	3,800	100KHz/1V
SPM5050100MESL				10.00	uH	±20%	95.0	114.0	- -	2,500	- -	3,500	100KHz/1V
SPM5050150MESL				15.00	uH	±20%	135.0	160.0	- -	2,400	- -	2,500	100KHz/1V
SPM5050220MESL				22.00	uH	±20%	230.0	275.0	- -	2,300	- -	2,100	100KHz/1V
SPM5050R10MEBL	5.40	5.20	3.00	0.10	uH	±20%	2.5	3.0	- -	25,000	- -	30,000	100KHz/1V
SPM5050R20MEBL				0.20	uH	±20%	3.2	3.9	- -	14,000	- -	20,000	100KHz/1V
SPM5050R33MEBL				0.33	uH	±20%	4.6	5.5	- -	14,000	- -	18,000	100KHz/1V
SPM5050R47MEBL				0.47	uH	±20%	7.0	8.5	- -	11,000	- -	15,000	100KHz/1V
SPM5050R68MEBL				0.68	uH	±20%	10.0	12.0	- -	9,000	- -	11,500	100KHz/1V
SPM50501R0MEBL				1.00	uH	±20%	11.0	14.0	- -	8,500	- -	10,000	100KHz/1V
SPM50501R2MEBL				1.20	uH	±20%	13.0	16.0	- -	8,500	- -	9,500	100KHz/1V
SPM50501R5MEBL				1.50	uH	±20%	18.0	25.0	- -	8,200	- -	9,000	100KHz/1V
SPM50502R2MEBL				2.20	uH	±20%	24.0	29.0	- -	7,000	- -	7,000	100KHz/1V
SPM50503R3MEBL				3.30	uH	±20%	32.0	38.0	- -	5,500	- -	6,000	100KHz/1V
SPM50504R7MEBL				4.70	uH	±20%	50.0	60.0	- -	4,500	- -	4,600	100KHz/1V
SPM50506R8MEBL				6.80	uH	±20%	75.0	90.0	- -	3,500	- -	3,600	100KHz/1V
SPM5050100MEBL				10.00	uH	±20%	105.0	125.0	- -	3,200	- -	3,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃
※SPM5050□□□□ECH Series Operating temperature -55 to +125℃

- SPM7070

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM70702R2MEKA	6.10	6.10	1.00	2.20	uH	±20%	85.0	102.0	3,200	2,800	4,800	4,300	100KHz/1V
SPM70704R7MEKA				4.70	uH	±20%	144.0	172.0	2,200	2,000	2,800	2,500	100KHz/1V
SPM70706R8MEKA				6.80	uH	±20%	164.0	197.0	2,000	1,800	2,500	2,200	100KHz/1V
SPM7070100MEKA				10.00	uH	±20%	220.0	264.0	1,650	1,550	2,800	2,300	100KHz/1V
SPM70704R7MEBA	6.10	6.10	1.00	4.70	uH	±20%	144.0	172.0	2,200	2,000	2,800	2,500	100KHz/1V
SPM70706R8MEBA				6.80	uH	±20%	164.0	197.0	2,000	1,800	2,500	2,200	100KHz/1V
SPM7070100MEBA				10.00	uH	±20%	270.0	310.0	1,600	1,400	2,100	1,900	100KHz/1V
SPM7070R22MESE	7.00	6.60	1.50	0.22	uH	±20%	5.1	5.8	- -	11,000	- -	22,000	100KHz/1V
SPM7070R33MESE				0.33	uH	±20%	6.8	7.8	- -	10,000	- -	19,500	100KHz/1V
SPM7070R47MESE				0.47	uH	±20%	8.5	9.8	- -	9,500	- -	16,000	100KHz/1V
SPM7070R56MESE				0.56	uH	±20%	9.5	11.0	- -	9,000	- -	14,000	100KHz/1V
SPM7070R68MESE				0.68	uH	±20%	12.5	14.5	- -	8,000	- -	12,000	100KHz/1V
SPM7070R82MESE				0.82	uH	±20%	15.0	17.0	- -	7,000	- -	10,000	100KHz/1V
SPM70701R0MESE				1.00	uH	±20%	18.5	21.0	- -	5,500	- -	9,000	100KHz/1V
SPM70701R2MESE				1.20	uH	±20%	21.0	30.0	- -	5,400	- -	8,500	100KHz/1V
SPM70701R5MESE				1.50	uH	±20%	37.0	42.5	- -	5,000	- -	7,000	100KHz/1V
SPM70702R2MESE				2.20	uH	±20%	41.0	50.0	- -	4,900	- -	6,100	100KHz/1V
SPM70703R3MESE				3.30	uH	±20%	54.0	63.0	- -	3,300	- -	5,500	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM70704R7MESE	7.00	6.60	1.50	4.70	uH	±20%	76.0	85.0	- -	3,000	- -	5,000	100KHz/1V
SPM70706R8MESE				6.80	uH	±20%	125.0	135.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MESE				10.00	uH	±20%	165.0	175.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R47MEBE	7.00	6.60	1.50	0.47	uH	± 20%	7.3	8.5	- -	10,000	- -	16,000	100KHz/1V
SPM7070R56MEBE				0.56	uH	± 20%	9.5	11.0	- -	9,000	- -	14,000	100KHz/1V
SPM7070R68MEBE				0.68	uH	± 20%	10.0	12.0	- -	8,500	- -	12,000	100KHz/1V
SPM7070R82MEBE				0.82	uH	± 20%	15.0	17.0	- -	8,000	- -	10,000	100KHz/1V
SPM70701R0MEBE				1.00	uH	± 20%	18.5	21.0	- -	6,000	- -	9,000	100KHz/1V
SPM70702R2MEBE				2.20	uH	± 20%	43.0	54.0	- -	3,800	- -	7,000	100KHz/1V
SPM70703R3MEBE				3.30	uH	± 20%	54.0	63.0	- -	3,500	- -	5,500	100KHz/1V
SPM70704R7MEBE				4.70	uH	± 20%	76.0	85.0	- -	3,200	- -	5,000	100KHz/1V
SPM70706R8MEBE				6.80	uH	± 20%	125.0	135.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MEBE				10.00	uH	± 20%	165.0	175.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R10MESG	7.20	6.60	1.80	0.10	uH	±20%	1.9	2.3	- -	18,000	- -	30,000	100KHz/1V
SPM7070R15MESG				0.15	uH	±20%	3.0	3.5	- -	16,000	- -	29,000	100KHz/1V
SPM7070R22MESG				0.22	uH	±20%	4.5	5.2	- -	14,000	- -	29,000	100KHz/1V
SPM7070R33MESG				0.33	uH	±20%	5.2	6.8	- -	12,000	- -	22,000	100KHz/1V
SPM7070R47MESG				0.47	uH	±20%	7.3	8.4	- -	11,000	- -	17,000	100KHz/1V
SPM7070R68MESG				0.68	uH	±20%	10.8	12.7	- -	9,000	- -	16,000	100KHz/1V
SPM7070R82MESG				0.82	uH	±20%	13.4	15.9	- -	8,000	- -	14,000	100KHz/1V
SPM70701R0MESG				1.00	uH	±20%	14.5	17.0	- -	7,000	- -	12,000	100KHz/1V
SPM70701R5MESG				1.50	uH	±20%	20.0	26.0	- -	6,000	- -	10,000	100KHz/1V
SPM70702R2MESG				2.20	uH	±20%	31.0	35.0	- -	5,000	- -	8,000	100KHz/1V
SPM70703R3MESG				3.30	uH	±20%	56.0	60.0	- -	3,500	- -	7,000	100KHz/1V
SPM70704R7MESG				4.70	uH	±20%	60.0	75.0	- -	3,500	- -	5,500	100KHz/1V
SPM70706R8MESG				6.80	uH	±20%	101.0	110.0	- -	2,800	- -	4,500	100KHz/1V
SPM70708R2MESG				8.20	uH	±20%	124.0	142.0	- -	2,500	- -	4,000	100KHz/1V
SPM7070100MESG				10.00	uH	±20%	155.0	166.0	- -	2,000	- -	3,000	100KHz/1V
SPM7070R10MEBG	7.00	6.60	1.80	0.10	uH	± 20%	1.9	2.3	- -	25,000	- -	38,000	100KHz/1V
SPM7070R22MEBG				0.22	uH	± 20%	3.0	3.5	- -	22,000	- -	24,000	100KHz/1V
SPM7070R47MEBG				0.47	uH	± 20%	7.3	8.4	- -	11,500	- -	18,000	100KHz/1V
SPM7070R68MEBG				0.68	uH	± 20%	10.0	12.0	- -	9,500	- -	16,500	100KHz/1V
SPM70701R0MEBG				1.00	uH	± 20%	13.6	16.0	- -	8,500	- -	12,000	100KHz/1V
SPM70701R5MEBG				1.50	uH	± 20%	20.0	26.0	- -	8,000	- -	9,200	100KHz/1V
SPM70702R2MEBG				2.20	uH	± 20%	31.0	35.0	- -	7,000	- -	8,000	100KHz/1V
SPM70703R3MEBG				3.30	uH	± 20%	47.0	50.0	- -	4,500	- -	6,000	100KHz/1V
SPM70704R7MEBG				4.70	uH	± 20%	50.0	62.0	- -	4,000	- -	5,000	100KHz/1V
SPM70706R8MEBG				6.80	uH	± 20%	101.0	110.0	- -	3,000	- -	4,500	100KHz/1V
SPM7070100MEBG				10.00	uH	± 20%	145.0	155.0	- -	2,300	- -	4,000	100KHz/1V
SPM7070220MEBG				22.00	uH	± 20%	325.0	350.0	- -	1,800	- -	2,300	100KHz/1V
SPM7070R22MECG	7.20	6.60	1.80	0.22	uH	± 20%	2.6	3.0	- -	16,000	- -	26,000	100KHz/1V
SPM7070R33MECG				0.33	uH	± 20%	5.0	5.8	- -	14,000	- -	22,000	100KHz/1V
SPM7070R47MECG				0.47	uH	± 20%	6.4	7.4	- -	12,000	- -	18,000	100KHz/1V
SPM7070R68MECG				0.68	uH	± 20%	9.5	11.0	- -	10,000	- -	17,000	100KHz/1V
SPM7070R82MECG				0.82	uH	± 20%	12.0	14.0	- -	8,500	- -	15,500	100KHz/1V
SPM70701R0MECG				1.00	uH	± 20%	14.5	17.0	- -	7,000	- -	14,000	100KHz/1V
SPM70701R5MECG				1.50	uH	± 20%	22.0	25.2	- -	6,000	- -	13,000	100KHz/1V
SPM70702R2MECG				2.20	uH	± 20%	30.4	35.0	- -	6,000	- -	11,000	100KHz/1V
SPM70703R3MECG				3.30	uH	± 20%	40.0	46.0	- -	5,000	- -	9,000	100KHz/1V
SPM70704R7MECG				4.70	uH	± 20%	66.0	76.0	- -	4,000	- -	7,000	100KHz/1V
SPM70706R8MECG				6.80	uH	± 20%	90.5	104.0	- -	3,000	- -	5,500	100KHz/1V
SPM7070100MECG				10.00	uH	± 20%	139.0	160.0	- -	2,300	- -	3,500	100KHz/1V
SPM7070R22MESI	7.20	6.60	2.40	0.22	uH	± 20%	2.5	3.0	- -	21,000	- -	34,000	100KHz/1V
SPM70701R5MESI				1.50	Uh	± 20%	13.5	16.0	- -	7,500	- -	12,000	100KHz/1V
SPM70703R3MESI				3.30	Uh	± 20%	31.0	39.0	- -	5,500	- -	8,000	100KHz/1V
SPM70706R8MESI				6.80	Uh	± 20%	57.0	70.0	- -	4,000	- -	6,000	100KHz/1V
SPM7070100MESI				10.00	Uh	± 20%	92.0	101.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070R22MEBI	7.00	6.60	2.40	0.22	Uh	± 20%	2.5	3.0	- -	21,000	- -	34,000	100KHz/1V
SPM7070R33MEBI				0.33	Uh	± 20%	3.4	4.1	- -	18,000	- -	24,500	100KHz/1V
SPM7070R47MEBI				0.47	Uh	± 20%	4.2	5.1	- -	15,000	- -	22,000	100KHz/1V
SPM7070R56MEBI				0.56	Uh	± 20%	5.4	6.5	- -	13,000	- -	17,000	100KHz/1V
SPM7070R68MEBI				0.68	Uh	± 20%	5.8	7.0	- -	12,000	- -	16,000	100KHz/1V
SPM70701R0MEBI				1.00	Uh	± 20%	11.2	13.5	- -	9,000	- -	15,000	100KHz/1V
SPM70701R5MEBI				1.50	Uh	± 20%	16.5	20.0	- -	8,200	- -	13,500	100KHz/1V
SPM70702R2MEBI				2.20	Uh	± 20%	22.0	28.0	- -	7,000	- -	10,000	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM70703R3MEBI	7.00	6.60	2.40	3.30	Uh	± 20%	31.0	39.0	- -	5,500	- -	8,000	100KHz/1V
SPM70704R7MEBI				4.70	Uh	± 20%	40.0	50.0	- -	5,000	- -	6,500	100KHz/1V
SPM70706R8MEBI				6.80	Uh	± 20%	57.0	70.0	- -	4,000	- -	6,000	100KHz/1V
SPM7070100MEBI				10.00	uH	± 20%	92.0	101.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070150MEBI				15.00	uH	± 20%	140.0	160.0	- -	2,500	- -	3,300	100KHz/1V
SPM7070220MEBI				22.00	uH	± 20%	210.0	230.0	- -	2,000	- -	2,500	100KHz/1V
SPM7070R10NESL	7.20	6.60	3.00	0.10	uH	±30%	1.5	1.7	- -	32,500	- -	60,000	100KHz/1V
SPM7070R15NESL				0.15	uH	±30%	1.5	1.8	- -	24,000	- -	41,000	100KHz/1V
SPM7070R22MESL				0.22	uH	±20%	2.5	2.8	- -	23,000	- -	34,000	100KHz/1V
SPM7070R33MESL				0.33	uH	±20%	3.0	3.5	- -	21,000	- -	25,000	100KHz/1V
SPM7070R47MESL				0.47	uH	±20%	3.5	4.1	- -	18,000	- -	20,000	100KHz/1V
SPM7070R56MESL				0.56	uH	±20%	3.9	4.5	- -	16,500	- -	18,000	100KHz/1V
SPM7070R68MESL				0.68	uH	±20%	4.5	5.0	- -	16,000	- -	17,000	100KHz/1V
SPM7070R82MESL				0.82	uH	±20%	7.0	7.5	- -	14,000	- -	16,000	100KHz/1V
SPM70701R0MESL				1.00	uH	±20%	8.5	9.0	- -	12,000	- -	15,000	100KHz/1V
SPM70701R5MESL				1.50	uH	±20%	10.6	12.1	- -	10,000	- -	13,000	100KHz/1V
SPM70702R2MESL				2.20	uH	±20%	15.5	18.0	- -	8,000	- -	10,000	100KHz/1V
SPM70703R3MESL				3.30	uH	±20%	25.0	28.0	- -	6,500	- -	9,000	100KHz/1V
SPM70704R7MESL				4.70	uH	±20%	32.5	35.0	- -	5,500	- -	6,500	100KHz/1V
SPM70705R6MESL				5.60	uH	±20%	36.0	42.0	- -	5,000	- -	6,250	100KHz/1V
SPM70706R8MESL				6.80	uH	±20%	43.9	50.0	- -	4,500	- -	6,000	100KHz/1V
SPM70708R2MESL				8.20	uH	±20%	54.0	60.0	- -	4,500	- -	6,000	100KHz/1V
SPM7070100MESL				10.00	uH	±20%	62.0	68.0	- -	4,000	- -	5,500	100KHz/1V
SPM7070150MESL				15.00	uH	±20%	105.0	125.0	- -	3,000	- -	4,000	100KHz/1V
SPM7070220MESL				22.00	uH	±20%	144.0	160.0	- -	2,500	- -	3,000	100KHz/1V
SPM7070330MESL				33.00	uH	±20%	230.0	255.0	- -	2,000	- -	3,300	100KHz/1V
SPM7070470MESL				47.00	uH	±20%	285.0	320.0	- -	1,750	- -	2,450	100KHz/1V
SPM7070R10MEBL	7.00	6.60	3.00	0.10	uH	± 20%	0.9	1.0	40,000	35,000	60,000	48,000	100KHz/1V
SPM7070R15MEBL				0.15	uH	± 20%	2.0	2.4	30,000	25,000	41,000	35,000	100KHz/1V
SPM7070R22MEBL				0.22	uH	± 20%	2.5	3.0	24,000	21,000	34,000	32,000	100KHz/1V
SPM7070R33MEBL				0.33	uH	± 20%	3.0	3.5	21,000	20,000	25,000	22,000	100KHz/1V
SPM7070R47MEBL				0.47	uH	± 20%	3.5	4.1	18,000	16,000	20,000	18,000	100KHz/1V
SPM7070R56MEBL				0.56	uH	± 20%	3.9	4.5	16,500	15,000	18,000	16,000	100KHz/1V
SPM7070R68MEBL				0.68	uH	± 20%	4.7	5.3	16,000	14,500	17,000	15,000	100KHz/1V
SPM7070R82MEBL				0.82	uH	± 20%	5.6	6.0	14,000	13,000	16,000	14,000	100KHz/1V
SPM70701R0MEBL				1.00	uH	± 20%	6.9	7.4	12,000	11,200	15,000	13,500	100KHz/1V
SPM70701R5MEBL				1.50	uH	± 20%	10.6	12.1	12,000	9,500	14,000	12,000	100KHz/1V
SPM70702R2MEBL				2.20	uH	± 20%	12.5	15.0	9,500	8,500	12,000	10,500	100KHz/1V
SPM70702R7MEBL				2.70	uH	± 20%	17.2	20.0	8,800	8,200	10,000	9,000	100KHz/1V
SPM70703R3MEBL				3.30	uH	± 20%	19.6	22.0	8,500	8,000	9,500	8,700	100KHz/1V
SPM70704R7MEBL				4.70	uH	± 20%	29.2	33.0	6,000	5,500	9,000	7,500	100KHz/1V
SPM70705R6MEBL				5.60	uH	± 20%	36.0	42.0	5,500	5,000	6,500	5,500	100KHz/1V
SPM70706R8MEBL				6.80	uH	± 20%	42.0	48.0	5,000	4,500	6,000	5,200	100KHz/1V
SPM70708R2MEBL				8.20	uH	± 20%	54.0	60.0	5,000	4,000	5,500	5,000	100KHz/1V
SPM7070100MEBL				10.00	uH	± 20%	62.0	68.0	4,500	3,800	5,500	4,900	100KHz/1V
SPM7070150MEBL				15.00	uH	± 20%	95.0	113.0	3,000	2,600	4,000	3,500	100KHz/1V
SPM7070220MEBL				22.00	uH	± 20%	150.0	170.0	2,500	2,200	3,000	2,500	100KHz/1V
SPM7070330MEBL				33.00	uH	± 20%	245.0	270.0	2,000	1,800	2,500	2,100	100KHz/1V
SPM7070470MEBL				47.00	uH	± 20%	350.0	385.0	1,500	1,300	2,000	1,800	100KHz/1V
SPM7070R10NECL	7.30	6.60	3.00	0.10	uH	±30%	1.3	1.7	- -	32,500	- -	60,000	100KHz/1V
SPM7070R15MECL				0.15	uH	±20%	1.5	1.9	- -	27,000	- -	45,000	100KHz/1V
SPM7070R22MECL				0.22	uH	±20%	2.1	2.8	- -	23,000	- -	40,000	100KHz/1V
SPM7070R33MECL				0.33	uH	±20%	3.0	3.9	- -	20,000	- -	32,000	100KHz/1V
SPM7070R47MECL				0.47	uH	±20%	3.2	4.2	- -	17,500	- -	26,000	100KHz/1V
SPM7070R56MECL				0.56	uH	±20%	3.8	5.0	- -	16,500	- -	36,500	100KHz/1V
SPM7070R68MECL				0.68	uH	±20%	4.2	5.5	- -	15,500	- -	25,000	100KHz/1V
SPM7070R82MECL				0.82	uH	±20%	6.4	8.0	- -	13,000	- -	24,000	100KHz/1V
SPM70701R0MECL				1.00	uH	±20%	8.5	10.0	- -	11,000	- -	22,000	100KHz/1V
SPM70701R5MECL				1.50	uH	±20%	12.0	15.0	- -	9,000	- -	18,000	100KHz/1V
SPM70702R2MECL				2.20	uH	±20%	16.0	20.0	- -	8,000	- -	14,000	100KHz/1V
SPM70703R3MECL				3.30	uH	±20%	22.0	30.0	- -	6,000	- -	13,500	100KHz/1V
SPM70704R7MECL				4.70	uH	±20%	31.0	40.0	- -	5,500	- -	10,000	100KHz/1V
SPM70705R6MECL				5.60	uH	±20%	40.0	48.0	- -	5,000	- -	9,000	100KHz/1V
SPM70706R8MECL				6.80	uH	±20%	50.0	60.0	- -	4,500	- -	8,000	100KHz/1V
SPM70708R2MECL				8.20	uH	±20%	56.0	68.0	- -	4,000	- -	7,500	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Max.	Max.	Typ.	Max.	Typ.	Max.	
SPM7070100MECL	7.30	6.60	3.00	10.00	uH	±20%	71.0	85.0	- -	3,500	- -	6,000	100KHz/1V
SPM7070150MECL				15.00	uH	±20%	102.0	123.0	- -	3,000	- -	4,000	100KHz/1V
SPM7070220MECL				22.00	uH	±20%	160.0	190.0	- -	2,000	- -	3,500	100KHz/1V
SPM7070330MECL				33.00	uH	±20%	210.0	240.0	- -	2,000	- -	2,500	100KHz/1V
SPM7070470MECL				47.00	uH	±20%	320.0	363.0	- -	1,750	- -	2,000	100KHz/1V
SPM7070R68MEEL	7.20	6.60	3.00	0.68	uH	± 20%	4.2	5.5	- -	15,000	- -	25,000	100KHz/1V
SPM70701R5MEEL				1.50	uH	± 20%	12.0	15.0	- -	9,000	- -	18,000	100KHz/1V
SPM70702R2MEEL				2.20	uH	± 20%	16.0	20.0	- -	8,000	- -	14,000	100KHz/1V
SPM70704R7MEEL				4.70	uH	± 20%	31.0	40.0	- -	5,500	- -	10,000	100KHz/1V
SPM70706R8MESN	7.20	6.60	4.00	6.80	uH	±20%	38.0	46.0	- -	4,700	- -	7,500	100KHz/1V
SPM7070330MESN				33.00	uH	±20%	190.0	228.0	- -	2,500	- -	3,000	100KHz/1V
SPM7070R68MEBN	7.00	6.60	4.00	0.68	uH	±20%	3.2	4.8	- -	17,000	- -	19,000	100KHz/1V
SPM70701R0MEBN				1.00	uH	±20%	5.0	6.6	- -	13,500	- -	16,000	100KHz/1V
SPM70701R5MEBN				1.50	uH	±20%	8.2	10.0	- -	12,400	- -	12,500	100KHz/1V
SPM70702R2MEBN				2.20	uH	±20%	11.5	14.0	- -	10,000	- -	11,000	100KHz/1V
SPM70703R3MEBN				3.30	uH	±20%	16.0	20.0	- -	8,500	- -	9,500	100KHz/1V
SPM70704R7MEBN				4.70	uH	±20%	24.0	30.0	- -	6,500	- -	9,000	100KHz/1V
SPM70706R8MEBN				6.80	uH	±20%	37.5	45.0	- -	5,500	- -	6,500	100KHz/1V
SPM70708R2MEBN				8.20	uH	±20%	46.0	55.0	- -	5,200	- -	6,000	100KHz/1V
SPM7070100MEBN				10.00	uH	±20%	55.0	65.0	- -	4,800	- -	6,000	100KHz/1V
SPM7070150MEBN				15.00	uH	±20%	80.0	95.0	- -	3,700	- -	4,500	100KHz/1V
SPM7070220MEBN				22.00	uH	±20%	105.0	125.0	- -	3,300	- -	4,000	100KHz/1V
SPM7070330MEBN				33.00	uH	±20%	210.0	240.0	- -	2,200	- -	3,000	100KHz/1V
SPM7070470MEBN				47.00	uH	±20%	285.0	320.0	- -	1,800	- -	2,500	100KHz/1V
SPM7070R36MESQ	7.20	6.60	5.00	0.36	uH	±20%	2.7	3.1	- -	21,000	- -	25,000	100KHz/1V
SPM7070R68MESQ				0.68	uH	±20%	3.3	3.6	- -	18,000	- -	17,000	100KHz/1V
SPM70701R0MESQ				1.00	uH	±20%	4.5	5.3	- -	14,500	- -	16,000	100KHz/1V
SPM70701R5MESQ				1.50	uH	±20%	6.0	7.5	- -	11,500	- -	15,000	100KHz/1V
SPM70702R2MESQ				2.20	uH	±20%	9.0	10.5	- -	10,500	- -	13,500	100KHz/1V
SPM70703R3MESQ				3.30	uH	±20%	14.0	15.0	- -	9,000	- -	10,000	100KHz/1V
SPM70704R7MESQ				4.70	uH	±20%	23.0	25.0	- -	6,500	- -	8,000	100KHz/1V
SPM70706R8MESQ				6.80	uH	±20%	31.5	35.5	- -	5,500	- -	6,500	100KHz/1V
SPM7070100MESQ				10.00	uH	±20%	42.0	50.0	- -	4,500	- -	5,000	100KHz/1V
SPM7070150MESQ				15.00	uH	±20%	76.0	85.0	- -	3,800	- -	4,600	100KHz/1V
SPM7070220MESQ				22.00	uH	±20%	105.0	120.0	- -	3,000	- -	3,700	100KHz/1V
SPM7070330MESQ				33.00	uH	±20%	155.0	170.0	- -	2,600	- -	3,100	100KHz/1V
SPM7070470MESQ				47.00	uH	±20%	162.0	178.0	- -	2,300	- -	2,500	100KHz/1V
SPM7070560MESQ				56.00	uH	±20%	235.0	290.0	- -	1,800	- -	2,200	100KHz/1V
SPM7070680MESQ				68.00	uH	±20%	280.0	320.0	- -	1,700	- -	2,400	100KHz/1V
SPM7070R47MEBQ	7.0	6.60	5.00	0.47	uH	±20%	3.3	3.9	- -	20,000	- -	21,000	100KHz/1V
SPM7070R68MEBQ				0.68	uH	±20%	4.0	4.5	- -	16,500	- -	18,000	100KHz/1V
SPM70701R0MEBQ				1.00	uH	±20%	5.0	6.6	- -	12,000	- -	16,000	100KHz/1V
SPM70701R5MEBQ				1.50	uH	±20%	8.0	10.0	- -	9,500	- -	13,000	100KHz/1V
SPM70702R2MEBQ				2.20	uH	±20%	10.5	12.5	- -	9,000	- -	11,000	100KHz/1V
SPM70703R3MEBQ				3.30	uH	±20%	20.0	22.0	- -	8,500	- -	10,000	100KHz/1V
SPM70704R7MEBQ				4.70	uH	±20%	23.0	29.0	- -	6,000	- -	8,000	100KHz/1V
SPM70706R8MEBQ				6.80	uH	±20%	35.0	41.0	- -	5,800	- -	6,300	100KHz/1V
SPM70708R2MEBQ				8.20	uH	±20%	40.0	48.0	- -	5,500	- -	5,500	100KHz/1V
SPM7070100MEBQ				10.00	uH	±20%	50.0	60.0	- -	4,500	- -	5,300	100KHz/1V
SPM7070150MEBQ				15.00	uH	±20%	80.0	90.0	- -	3,100	- -	4,000	100KHz/1V
SPM7070220MEBQ				22.00	uH	±20%	125.0	140.0	- -	2,600	- -	3,500	100KHz/1V
SPM7070330MEBQ				33.00	uH	±20%	170.0	190.0	- -	2,300	- -	3,000	100KHz/1V
SPM7070470MEBQ				47.00	uH	±20%	210.0	230.0	- -	2,000	- -	2,600	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

※SPM7070□□□□ECG、SPM7070□□□□EEL Series Operating temperature -55 to +125℃

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

● SPM8080

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM80801R0MESN	8.65	8.00	4.00	1.00	uH	± 20%	3.9	4.2	20,800	16,000	28,000	21,000	100KHz/1V
SPM80804R7MESN				4.70	uH	± 20%	18.5	21.2	8,000	7,300	10,500	9,000	100KHz/1V
SPM80806R8MESN				6.80	uH	± 20%	25.0	29.0	7,000	6,300	9,500	8,000	100KHz/1V
SPM8080100MESN				10.00	uH	± 20%	36.0	43.0	6,000	5,700	7,700	6,500	100KHz/1V
SPM8080470MESN				47.00	uH	± 20%	175.0	200.0	2,600	2,400	3,200	2,900	100KHz/1V
SPM8080R22MEBN	8.80	8.20	4.00	0.22	uH	±20%	1.6	1.8	36,000	30,000	60,000	55,000	100KHz/1V
SPM8080R33MEBN				0.33	uH	±20%	2.1	2.4	30,000	25,000	45,000	40,000	100KHz/1V
SPM8080R47MEBN				0.47	uH	±20%	2.5	2.8	28,000	25,000	42,000	36,000	100KHz/1V
SPM8080R56MEBN				0.60	uH	±20%	2.9	3.2	24,000	22,000	26,000	23,000	100KHz/1V
SPM8080R68MEBN				0.68	uH	±20%	3.4	3.8	23,000	21,000	24,000	22,000	100KHz/1V
SPM8080R82MEBN				0.82	uH	±20%	4.0	4.4	21,000	19,000	21,000	19,000	100KHz/1V
SPM80801R0MEBN				1.00	uH	±20%	4.2	4.62	19,000	17,000	19,000	17,000	100KHz/1V
SPM80801R5MEBN				1.50	uH	±20%	6.9	7.6	17,000	15,000	17,000	15,000	100KHz/1V
SPM80801R8MEBN				1.80	uH	±20%	9.5	11.0	15,000	12,500	15,000	13,500	100KHz/1V
SPM80802R2MEBN				2.20	uH	±20%	10.0	11.4	14,000	12,000	14,000	12,000	100KHz/1V
SPM80803R3MEBN				3.30	uH	±20%	13.5	15.0	12,000	10,000	12,500	11,000	100KHz/1V
SPM80804R7MEBN				4.70	uH	±20%	24.0	26.5	9,500	8,500	11,500	10,500	100KHz/1V
SPM80805R6MEBN				5.60	uH	±20%	27.0	30.0	9,000	8,000	11,000	10,000	100KHz/1V
SPM80806R8MEBN				6.80	uH	±20%	31.0	36.8	8,000	7,000	9,000	8,000	100KHz/1V
SPM80808R2MEBN				8.20	uH	±20%	38.0	46.0	7,000	6,000	8,700	7,700	100KHz/1V
SPM8080100MEBN				10.00	uH	±20%	49.0	59.0	6,500	5,500	8,000	7,000	100KHz/1V
SPM8080150MEBN				15.00	uH	±20%	60.0	71.0	5,400	4,800	5,500	4,900	100KHz/1V
SPM8080220MEBN				22.00	uH	±20%	100.0	113.0	4,800	4,200	5,000	4,500	100KHz/1V
SPM8080330MEBN				33.00	uH	±20%	135.0	156.0	3,500	3,000	3,500	3,300	100KHz/1V
SPM8080470MEBN				47.00	uH	±20%	200.0	225.0	2,900	2,500	3,100	2,900	100KHz/1V
SPM80802R2MESW	8.70	8.20	5.50	2.20	uH	± 20%	6.0	7.2	14,000	13,500	16,700	14,300	100KHz/1V
SPM80803R3MESW				3.30	uH	± 20%	9.0	10.5	11,900	11,500	14,500	12,000	100KHz/1V
SPM80804R7MESW				4.70	uH	± 20%	12.3	15.0	8,900	8,000	13,500	11,500	100KHz/1V
SPM80806R8MESW				6.80	uH	± 20%	20.0	24.0	6,800	6,500	11,500	9,500	100KHz/1V
SPM8080100MESW				10.00	uH	± 20%	32.0	36.0	6,100	5,900	8,800	7,300	100KHz/1V
SPM8080150MESW				15.00	uH	± 20%	44.0	52.8	4,900	4,400	6,300	5,100	100KHz/1V
SPM8080220MESW				22.00	uH	± 20%	56.0	67.0	4,300	4,200	6,200	5,200	100KHz/1V
SPM8080330MESW				33.00	uH	± 20%	100.0	115.0	3,600	3,400	5,300	4,300	100KHz/1V
SPM8080470MESW				47.00	uH	± 20%	133.0	146.0	2,950	2,850	4,500	3,700	100KHz/1V
SPM8080101MESW				100.00	uH	± 20%	285.0	315.0	2,000	1,900	2,900	2,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPM1010

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM10102R2MESN	11.20	10.00	4.00	2.20	uH	±20%	6.0	7.0	- -	12,000	- -	18,000	100KHz/1V
SPM10103R3MESN				3.30	uH	±20%	10.8	11.8	- -	10,000	- -	16,000	100KHz/1V
SPM10104R7MESN				4.70	uH	±20%	17.0	20.0	- -	8,500	- -	15,000	100KHz/1V
SPM10105R6MESN				5.60	uH	±20%	20.0	23.0	- -	8,000	- -	14,000	100KHz/1V
SPM10106R8MESN				6.80	uH	±20%	22.5	25.0	- -	7,000	- -	12,000	100KHz/1V
SPM10108R2MESN				8.20	uH	±20%	25.0	27.0	- -	6,500	- -	9,000	100KHz/1V
SPM1010100MESN				10.00	uH	±20%	27.0	30.0	- -	6,500	- -	8,500	100KHz/1V
SPM1010150MESN				15.00	uH	±20%	40.0	45.0	- -	6,300	- -	7,000	100KHz/1V
SPM1010220MESN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SPM1010330MESN				33.00	uH	±20%	85.0	92.0	- -	4,000	- -	4,500	100KHz/1V
SPM1010470MESN				47.00	uH	±20%	130.0	145.0	- -	3,000	- -	3,500	100KHz/1V
SPM1010680MESN				68.00	uH	±20%	178.0	195.0	- -	2,300	- -	3,000	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM1010R47METN	11.20	10.00	4.00	0.47	uH	±20%	2.5	3.0	- -	21,000	- -	35,000	100KHz/1V
SPM1010R68METN				0.68	uH	±20%	3.0	3.3	- -	18,000	- -	29,000	100KHz/1V
SPM10101R0METN				1.00	uH	±20%	3.3	3.6	- -	17,000	- -	28,000	100KHz/1V
SPM10101R2METN				1.20	uH	±20%	4.5	5.4	- -	16,000	- -	22,000	100KHz/1V
SPM10101R5METN				1.50	uH	±20%	4.7	5.6	- -	15,000	- -	21,000	100KHz/1V
SPM1010R15MEBN	11.5 MAX	10.00	4.00	0.15	uH	±20%	0.6	0.7	- -	45,000	- -	75,000	100KHz/1V
SPM1010R22MEBN				0.22	uH	±20%	0.9	1.0	- -	35,000	- -	60,000	100KHz/1V
SPM1010R30MEBN				0.30	uH	±20%	1.0	1.1	- -	35,000	- -	45,000	100KHz/1V
SPM1010R36MEBN				0.36	uH	±20%	1.1	1.2	- -	30,000	- -	45,000	100KHz/1V
SPM1010R47MEBN				0.47	uH	±20%	1.5	1.7	- -	30,000	- -	40,000	100KHz/1V
SPM1010R56MEBN				0.56	uH	±20%	1.6	1.8	- -	25,000	- -	33,000	100KHz/1V
SPM1010R68MEBN				0.68	uH	±20%	2.1	2.4	- -	23,000	- -	30,000	100KHz/1V
SPM1010R80MEBN				0.80	uH	±20%	2.4	2.7	- -	23,000	- -	29,000	100KHz/1V
SPM10101R0MEBN				1.00	uH	±20%	3.0	3.3	- -	19,000	- -	28,000	100KHz/1V
SPM10101R5MEBN				1.50	uH	±20%	3.8	4.2	- -	16,000	- -	24,000	100KHz/1V
SPM10102R2MEBN				2.20	uH	±20%	6.0	7.0	- -	12,000	- -	16,500	100KHz/1V
SPM10103R3MEBN				3.30	uH	±20%	10.8	11.8	- -	11,000	- -	16,000	100KHz/1V
SPM10104R7MEBN				4.70	uH	±20%	17.0	20.0	- -	9,000	- -	13,000	100KHz/1V
SPM10106R8MEBN				6.80	uH	±20%	22.5	25.0	- -	8,500	- -	12,000	100KHz/1V
SPM10108R2MEBN				8.20	uH	±20%	25.0	27.0	- -	8,000	- -	9,000	100KHz/1V
SPM1010100MEBN				10.00	uH	±20%	27.0	30.0	- -	7,800	- -	8,500	100KHz/1V
SPM1010150MEBN				15.00	uH	±20%	40.0	45.0	- -	6,500	- -	7,000	100KHz/1V
SPM1010220MEBN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V
SPM1010330MEBN				33.00	uH	±20%	85.0	92.0	- -	4,400	- -	4,800	100KHz/1V
SPM1010470MEBN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SPM1010680MEBN				68.00	uH	±20%	178.0	195.0	- -	2,500	- -	3,000	100KHz/1V
SPM1010820MEBN				82.00	uH	±20%	260.0	285.0	- -	2,300	- -	2,800	100KHz/1V
SPM1010101MEBN				100.00	uH	±20%	315.0	340.0	- -	2,000	- -	2,300	100KHz/1V
SPM1010100MESW	11.20	10.00	5.50	10.00	uH	± 20%	21.0	24.2	8,000	7,200	12,500	10,500	100KHz/1V
SPM1010150MESW				15.00	uH	± 20%	30.0	33.5	6,700	6,400	9,700	8,200	100KHz/1V
SPM1010220MESW				22.00	uH	± 20%	47.0	53.0	6,000	5,400	8,800	7,200	100KHz/1V
SPM1010330MESW				33.00	uH	± 20%	67.0	77.1	4,500	4,200	6,200	5,200	100KHz/1V
SPM1010470MESW				47.00	uH	± 20%	98.0	114.0	4,100	3,600	4,900	4,200	100KHz/1V
SPM1010101MESW				100.00	uH	± 20%	200.0	230.0	2,800	2,500	3,600	3,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -40 to +125℃

● SPM1313 / SIM1313

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM13131R0MESM	13.90	12.80	3.50	1.00	uH	±20%	3.4	4.2	18,000	17,000	34,000	28,000	100KHz/1V
SPM13132R2MESM				2.20	uH	±20%	6.6	7.5	11,500	11,000	23,500	20,000	100KHz/1V
SPM13132R2MESQ	13.90	12.80	5.00	2.20	uH	± 20%	4.0	5.0	- -	15,000	- -	24,000	100KHz/1V
SPM13133R3MESQ				3.30	uH	± 20%	5.9	7.0	- -	14,000	- -	22,000	100KHz/1V
SPM13134R7MESQ				4.70	uH	± 20%	8.5	10.5	- -	13,000	- -	19,000	100KHz/1V
SPM13136R8MESQ				6.80	uH	± 20%	13.0	15.5	- -	12,000	- -	14,000	100KHz/1V
SPM1313100MESQ				10.00	uH	± 20%	19.0	22.0	- -	9,000	- -	12,000	100KHz/1V
SPM1313150MESQ				15.00	uH	± 20%	26.0	31.0	- -	5,900	- -	8,400	100KHz/1V
SPM1313220MESQ				22.00	uH	± 20%	51.0	58.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313R68METQ	13.90	12.80	5.00	0.68	uH	±20%	2.5	3.0	- -	23,000	- -	38,000	100KHz/1V
SPM13131R0METQ				1.00	uH	±20%	3.0	3.6	- -	22,000	- -	28,000	100KHz/1V
SPM13131R5METQ				1.50	uH	±20%	3.5	4.2	- -	18,500	- -	23,000	100KHz/1V
SPM1313R22MEBQ	13.45	12.60	5.00	0.22	uH	±20%	0.6	0.7	- -	50,000	- -	75,000	100KHz/1V
SPM1313R36MEBQ				0.36	uH	±20%	0.7	0.9	- -	42,000	- -	50,000	100KHz/1V
SPM1313R50MEBQ				0.50	uH	±20%	1.0	1.2	- -	38,000	- -	48,000	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM1313R68MEBQ	13.45	12.60	5.00	0.68	uH	±20%	1.4	1.6	- -	33,000	- -	46,000	100KHz/1V
SPM1313R82MEBQ				0.82	uH	±20%	1.5	1.7	- -	30,000	- -	39,000	100KHz/1V
SPM13131R0MEBQ				1.00	uH	±20%	2.0	2.2	- -	26,000	- -	35,000	100KHz/1V
SPM13131R5MEBQ				1.50	uH	±20%	3.9	3.2	- -	23,000	- -	33,000	100KHz/1V
SPM13132R2MEBQ				2.20	uH	±20%	4.5	5.0	- -	15,000	- -	24,000	100KHz/1V
SPM13133R3MEBQ				3.30	uH	±20%	6.3	7.0	- -	14,000	- -	22,000	100KHz/1V
SPM13134R7MEBQ				4.70	uH	±20%	8.2	9.0	- -	13,000	- -	20,000	100KHz/1V
SPM13136R8MEBQ				6.80	uH	±20%	16.0	18.0	- -	12,000	- -	16,000	100KHz/1V
SPM13138R2MEBQ				8.20	uH	±20%	18.0	20.0	- -	9,500	- -	13,000	100KHz/1V
SPM1313100MEBQ				10.00	uH	±20%	20.0	22.0	- -	9,000	- -	12,000	100KHz/1V
SPM1313150MEBQ				15.00	uH	±20%	26.0	30.0	- -	8,000	- -	10,000	100KHz/1V
SPM1313220MEBQ				22.00	uH	±20%	52.0	58.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313330MEBQ				33.00	uH	±20%	75.0	84.0	- -	3,500	- -	6,000	100KHz/1V
SPM1313470MEBQ				47.00	uH	±20%	115.0	130.0	- -	3,000	- -	5,000	100KHz/1V
SPM1313680MEBQ				68.00	uH	±20%	130.0	145.0	- -	2,800	- -	4,500	100KHz/1V
SPM13132R2MESR	13.90	12.80	6.00	2.20	uH	±20%	3.8	4.1	- -	21,000	- -	25,000	100KHz/1V
SPM13133R3MESR				3.30	uH	±20%	5.3	6.4	- -	17,000	- -	22,000	100KHz/1V
SPM13134R7MESR				4.70	uH	±20%	7.2	9.0	- -	16,000	- -	18,000	100KHz/1V
SPM13136R8MESR				6.80	uH	±20%	9.5	12.0	- -	12,000	- -	15,000	100KHz/1V
SPM13138R2MESR				8.20	uH	±20%	13.6	16.0	- -	11,000	- -	13,500	100KHz/1V
SPM1313100MESR				10.00	uH	±20%	18.0	20.7	- -	10,000	- -	12,500	100KHz/1V
SPM1313150MESR				15.00	uH	±20%	25.0	29.0	- -	6,000	- -	9,000	100KHz/1V
SPM1313220MESR				22.00	uH	±20%	34.0	39.5	- -	5,000	- -	7,500	100KHz/1V
SPM1313270MESR				27.00	uH	±20%	49.0	56.0	- -	4,500	- -	6,500	100KHz/1V
SPM1313330MESR				33.00	uH	±20%	65.0	75.0	- -	4,000	- -	6,000	100KHz/1V
SPM1313470MESR				47.00	uH	±20%	80.0	90.0	- -	3,500	- -	5,500	100KHz/1V
SPM1313680MESR				68.00	uH	±20%	120.0	140.0	- -	3,000	- -	4,500	100KHz/1V
SPM1313101MESR				100.00	uH	±20%	180.0	200.0	- -	2,500	- -	3,500	100KHz/1V
SPM1313121MESR				120.00	uH	±20%	210.0	235.0	- -	2,300	- -	3,200	100KHz/1V
SPM1313151MESR				150.00	uH	±20%	250.0	300.0	- -	2,200	- -	2,700	100KHz/1V
SPM13134R7MEBR	13.45	12.60	6.00	4.70	uH	±20%	7.2	9.0	- -	15,000	- -	24,000	100KHz/1V
SPM13135R6MEBR				5.60	uH	±20%	9.0	11.0	- -	13,000	- -	22,500	100KHz/1V
SPM13136R8MEBR				6.80	uH	±20%	11.0	13.5	- -	12,000	- -	19,000	100KHz/1V
SPM13138R2MEBR				8.20	uH	±20%	13.6	16.0	- -	11,000	- -	13,500	100KHz/1V
SPM1313100MEBR				10.00	uH	±20%	18.0	20.7	- -	10,000	- -	12,500	100KHz/1V
SPM1313120MEBR				12.00	uH	±20%	20.0	23.0	- -	9,000	- -	10,000	100KHz/1V
SPM1313150MEBR				15.00	uH	±20%	25.0	29.0	- -	8,500	- -	9,000	100KHz/1V
SPM1313180MEBR				18.00	uH	±20%	29.0	35.0	- -	7,500	- -	8,000	100KHz/1V
SPM1313220MEBR				22.00	uH	±20%	34.0	39.5	- -	7,000	- -	7,500	100KHz/1V
SPM1313270MEBR				27.00	uH	±20%	49.0	56.0	- -	6,000	- -	6,500	100KHz/1V
SPM1313330MEBR				33.00	uH	±20%	65.0	75.0	- -	5,500	- -	6,000	100KHz/1V
SPM1313470MEBR				47.00	uH	±20%	80.0	90.0	- -	5,000	- -	5,500	100KHz/1V
SPM1313680MEBR				68.00	uH	±20%	120.0	140.0	- -	4,000	- -	4,500	100KHz/1V
SPM1313101MEBR				100.00	uH	±20%	180.0	200.0	- -	3,000	- -	3,500	100KHz/1V
SPM1313121MEBR				120.00	uH	±20%	200.0	235.0	- -	2,000	- -	3,200	100KHz/1V
SPM1313151MEBR				150.00	uH	±20%	315.0	350.0	- -	1,500	- -	2,700	100KHz/1V
SIM1313220MESN	13.90	12.80	4.00	22.00	uH	± 20%	42.5	52.5	6,100	6,000	9,500	7,500	100KHz/1V
SIM1313330MESN				33.00	uH	± 20%	63.0	73.0	5,100	5,000	7,300	6,000	100KHz/1V
SIM1313101MESN				100.00	uH	± 20%	215.0	230.0	2,600	2,400	3,800	3,100	100KHz/1V
SIM1313220MESR	13.90	12.80	6.00	22.00	uH	± 20%	29.0	34.0	7,700	7,200	11,000	9,500	100KHz/1V
SIM1313330MESR				33.00	uH	± 20%	43.0	51.0	6,500	6,000	9,000	7,500	100KHz/1V
SIM1313470MESR				47.00	uH	± 20%	60.0	70.0	5,300	4,800	7,800	6,500	100KHz/1V
SIM1313101MESR				100.00	uH	± 20%	130.0	155.0	3,700	3,500	5,300	4,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

● SPM1717

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM17171R0MESU	17.15	17.00	7.00	1.00	uH	±20%	1.25	1.8	36,000	35,000	75,000	60,000	100KHz/1V
SPM17173R3MESU				3.30	uH	±20%	3.0	3.6	26,000	24,000	38,000	30,000	100KHz/1V
SPM17176R8MESU				6.80	uH	±20%	6.5	7.5	19,000	17,500	30,000	24,00	100KHz/1V
SPM1717100MESU				10.00	uH	±20%	9.2	9.9	15,000	14,000	25,000	20,000	100KHz/1V
SPM1717220MESU				22.00	uH	±20%	20.0	23.0	12,000	10,000	14,500	12,000	100KHz/1V
SPM1717330MESU				33.00	uH	±20%	30.0	36.0	9,600	8,900	14,500	11,500	100KHz/1V
SPM1717680MESU				68.00	uH	±20%	56.0	65.0	7,200	6,600	10,000	8,200	100KHz/1V
SPM17171R5MEBU	17.15	17.15MAX	7.00	1.50	uH	±20%	1.7	2.1	- -	33,000	- -	40,000	100KHz/1V
SPM17172R2MEBU				2.20	uH	±20%	2.0	2.5	- -	29,000	- -	34,000	100KHz/1V
SPM17173R3MEBU				3.30	uH	±20%	3.0	4.0	- -	24,000	- -	30,000	100KHz/1V
SPM17174R7MEBU				4.70	uH	±20%	3.8	4.8	- -	21,000	- -	24,000	100KHz/1V
SPM17176R8MEBU				6.80	uH	±20%	6.0	7.5	- -	17,000	- -	22,000	100KHz/1V
SPM17178R2MEBU				8.20	uH	±20%	7.0	8.7	- -	13,000	- -	20,000	100KHz/1V
SPM1717100MEBU				10.00	uH	±20%	8.0	9.9	- -	12,000	- -	19,000	100KHz/1V
SPM1717150MEBU				15.00	uH	±20%	13.5	17.0	- -	11,000	- -	14,500	100KHz/1V
SPM1717220MEBU				22.00	uH	±20%	18.5	23.0	- -	8,500	- -	11,500	100KHz/1V
SPM1717330MEBU				33.00	uH	±20%	28.0	37.0	- -	8,000	- -	10,000	100KHz/1V
SPM1717470MEBU				47.00	uH	±20%	37.0	47.0	- -	6,000	- -	7,500	100KHz/1V
SPM1717680MEBU				68.00	uH	±20%	70.0	85.0	- -	5,200	- -	6,500	100KHz/1V
SPM1717101MEBU				100.00	uH	±20%	110.0	130.0	- -	3,700	- -	5,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPM2222

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPM22223R3MESX	22.50	22.00	13.00	3.30	uH	±20%	1.5	1.8	50,000	48,000	65,000	55,000	100KHz/1V
SPM22224R7MESX				4.70	uH	±20%	1.9	2.2	41,000	40,000	60,000	45,000	100KHz/1V
SPM22226R8MESX				6.80	uH	±20%	2.7	3.2	29,000	28,000	58,000	48,000	100KHz/1V
SPM2222100MESX				10.00	uH	±20%	4.0	4.7	28,000	27,000	47,000	39,000	100KHz/1V
SPM2222220MESX				22.0	uH	±20%	9.5	11.5	20,000	19,800	25,500	21,500	100KHz/1V
SPM2222330MESX				33.0	uH	±20%	13.9	16.0	18,500	17,500	21,500	18,500	100KHz/1V
SPM22221R0MEBX	23.50	22.00	13.00	1.00	uH	±20%	0.8	1.0	70,000	65,000	60,000	54,000	100KHz/1V
SPM22221R5MEBX				1.50	uH	±20%	0.9	1.2	62,000	57,000	52,000	48,000	100KHz/1V
SPM22222R2MEBX				2.20	uH	±20%	1.1	1.3	58,000	52,000	48,000	43,000	100KHz/1V
SPM22223R3MEBX				3.30	uH	±20%	1.5	1.8	49,000	47,000	41,000	37,000	100KHz/1V
SPM22224R7MEBX				4.70	uH	±20%	1.9	2.2	47,000	44,000	38,000	34,000	100KHz/1V
SPM22226R8MEBX				6.80	uH	±20%	2.6	3.1	40,000	36,000	36,000	32,000	100KHz/1V
SPM2222100MEBX				10.00	uH	±20%	3.4	4.2	33,000	30,000	28,000	20,000	100KHz/1V
SPM2222150MEBX				15.00	uH	±20%	5.1	6.1	26,000	23,000	23,000	18,000	100KHz/1V
SPM2222220MEBX				22.00	uH	±20%	9.0	11.0	22,000	18,000	15,000	14,000	100KHz/1V
SPM2222330MEBX				33.00	uH	±20%	12.5	15.4	19,000	16,000	12,000	10,500	100KHz/1V
SPM2222470MEBX				47.00	uH	±20%	17.5	20.8	17,000	14,000	12,000	10,000	100KHz/1V
SPM2222680MEBX				68.00	uH	±20%	24.5	29.5	14,000	12,000	12,000	9,000	100KHz/1V
SPM2222820MEBX				82.00	uH	±20%	28.5	34.2	12,000	10,000	9,000	7,700	100KHz/1V
SPM2222101MEBX				100.00	uH	±20%	31.0	40.0	11,000	9,500	9,000	7,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SPM2222_MEBX：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

Automotive Type Inductor for Molding Inductor

(SAM / AIM / ACM Series)

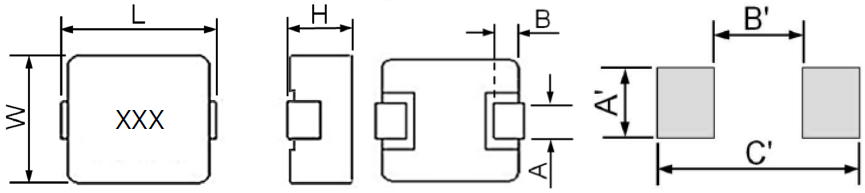
■ Feature

1. Magnetic shielded construction
2. Frequency range up to 3.0MHz
3. Higher rated current, capable handling at high current spikes

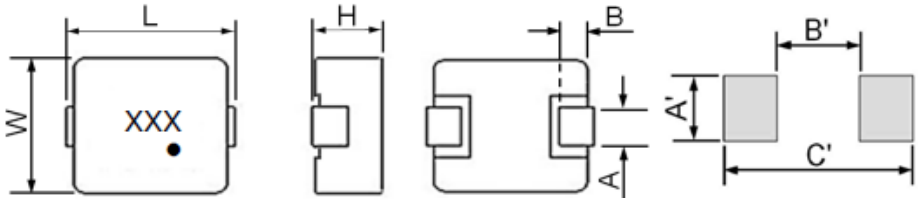
■ Application

1. VGA card applications
2. DC-DC Converter applications
3. Low profile, high current power supplies
4. Automotive Application

■ Standard External Dimensions



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM4040□□□□ESC	4.7±0.3	4.2±0.2	1.0±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	3,500
SAM4040□□□□ESH	4.7±0.3	4.2±0.2	1.8±0.2	2.0±0.3	0.8±0.3	2.5	2.4	5.4	13”	2,000
SAM5050□□□□ESE	5.7±0.3	5.2±0.2	1.3±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□ESG	5.7±0.3	5.2±0.2	1.6±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□ESH	5.7±0.3	5.2±0.2	1.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	3,000
SAM5050□□□□ESL	5.7±0.3	5.2±0.2	2.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	2,000
SAM5050□□□□ESN	5.7±0.3	5.2±0.2	3.8±0.2	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	1,500
SAM7070□□□□ESE	7.0±0.3	6.6±0.2	1.3±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SAM7070□□□□ESG	7.2±0.3	6.6±0.2	1.6±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	2,000
SAM7070□□□□ESL	7.2±0.3	6.6±0.2	2.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,500
SAM7070□□□□ESN	7.2±0.3	6.6±0.2	3.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SAM7070□□□□ESQ	7.2±0.3	6.6±0.2	4.8±0.2	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SAM8080□□□□ESW	8.7±0.35	8.2±0.3	5.3±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13”	500
SAM1010□□□□E_N	11.2±0.3	10.0±0.2	3.8±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	800
SAM1010□□□□E_W	11.2±0.3	10.0±0.2	5.3±0.2	3.0±0.5	2.0±0.5	4.0	5.5	13.5	13”	500
SAM1313□□□□E_Q*	13.9±0.3	12.8±0.2	4.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
SAM1313□□□□E_R	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
AIM1313□□□□ESN	13.9±0.3	12.8±0.2	3.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500
AIM1313□□□□ESR	13.9±0.3	12.8±0.2	5.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500

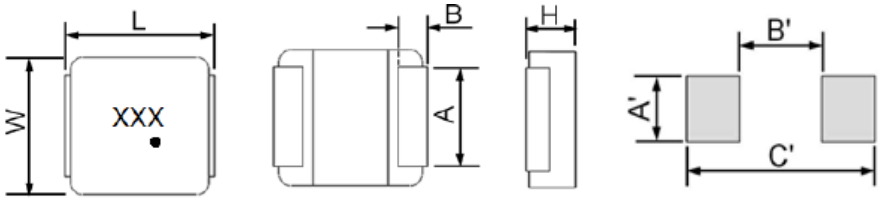


Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM5050□□□□EZN	5.7±0.3	5.2±0.2	3.8+0/-0.3	2.5±0.3	1.0±0.3	3.5	3.0	7.0	13”	1,500
SAM8080□□□□ESN	8.65±0.25	8.0±0.2	3.8±0.2	5.1±0.3	1.6±0.3	5.4	4.8	9.6	13”	800
SAM7070□□□□EZQ*	7.2±0.3	6.6±0.2	4.8+0/-0.3	3.0±0.5	1.5±0.3	3.5	4.0	8.5	13”	1,000
SAM1313□□□□E_Q*	13.9±0.3	12.8±0.2	4.8±0.2	5.0±0.5	2.0±0.3	6.0	8.0	14.5	13”	500

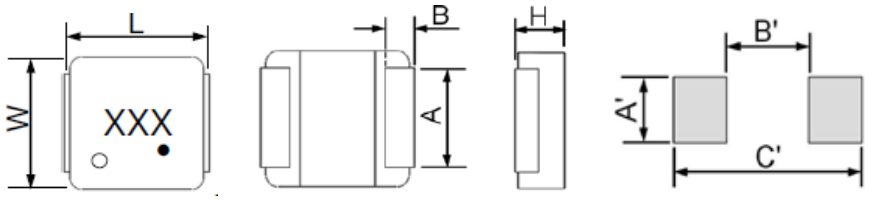
*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification

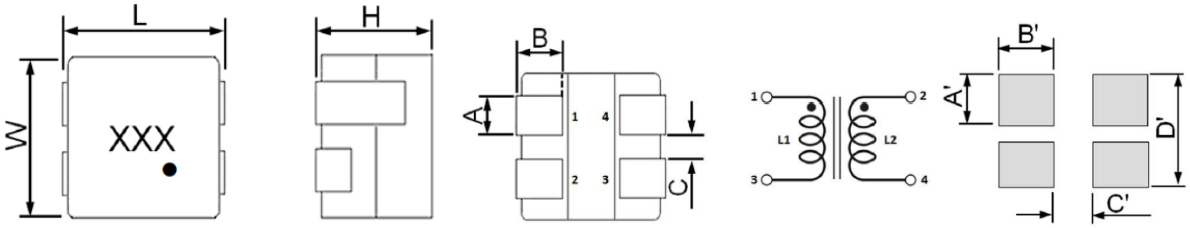
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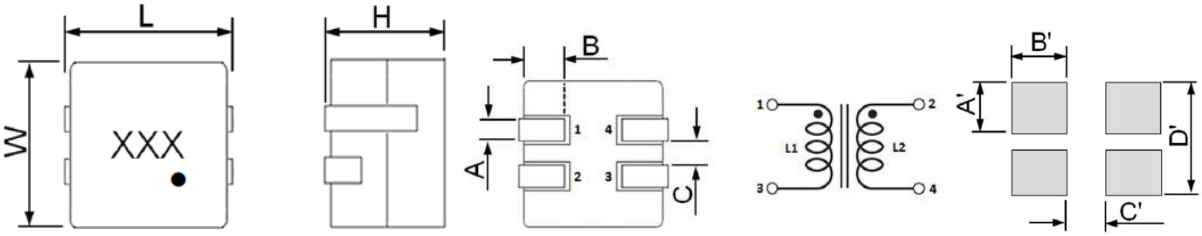
Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM1717□□□□ESU*	17.15±0.35	17.0±0.15	6.8±0.2	12.0±0.5	2.6±0.7	12.8	11.2	18.2	13”	300



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	Recommended Land Patterns			Package	
						A' (mm)	B (mm)	C' (mm)	Reel	Amount(pcs)
SAM2222□□□□ESX*	22.5±0.5	22.0±0.5	13.0Max.	18.5±0.5	5.0±0.5	18.8	11.5	23.3	13”	50



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Recommended Land Patterns				Package	
							A' (mm)	B' (mm)	C' (mm)	D' (mm)	Reel	Amount (pcs)
ACM7070□□□□ESR	7.7±0.35	7.2±0.3	6.0max	2.3±0.3	1.75±0.35	1.2±0.3	2.8	3.0	3.3	6.4	13”	800
ACM1010□□□□ESY	10.8±0.35	10.0±0.3	8.0max	3.1±0.3	2.4±0.5	1.6±0.2	3.8	4.0	5.0	8.8	13”	400



Series	L (mm)	W (mm)	H (mm)	A (mm)	B (mm)	C (mm)	Recommended Land Patterns				Package	
							A' (mm)	B' (mm)	C' (mm)	D' (mm)	Reel	Amount (pcs)
ACM1313□□□□ESS	12.0±0.3	12.0±0.3	6.5max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	500
ACM1313□□□□ESY	12.0±0.3	12.0±0.3	8.0max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	300
ACM1313□□□□ESV	12.0±0.3	12.0±0.3	8.0Max	1.5±0.4	3.25±0.3	1.65±0.4	2.20	4.50	4.50	5.9	13”	250
ACM1313□□□□ESO	12.0±0.3	12.0±0.3	10.0max	1.5±0.4	3.25±0.3	1.65±0.4	2.2	4.0	4.5	5.9	13”	200

*New Series

For some special parts, please see the “Part Number & Characteristic” for detail specification

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

■ Part Number & Characteristic (General Molding for Automotive)(SAM Series)

● SAM4040

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM4040R33MESC	4.70	4.20	1.20	0.33	uH	±20%	14.0	16.5	6,500	9,000	100KHz/1V
SAM4040R47MESC				0.47	uH	±20%	19.0	21.0	6,000	6,800	100KHz/1V
SAM4040R68MESC				0.68	uH	±20%	32.0	36.0	4,500	6,000	100KHz/1V
SAM40401R0MESC				1.00	uH	±20%	43.0	47.0	4,200	5,200	100KHz/1V
SAM40401R5MESC				1.50	uH	±20%	68.0	75.0	3,250	4,000	100KHz/1V
SAM40402R2MESC				2.20	uH	±20%	79.4	83.5	2,750	3,500	100KHz/1V
SAM40403R3MESC				3.30	uH	±20%	120.0	138.0	2,300	3,000	100KHz/1V
SAM40404R7MESC				4.70	uH	±20%	175.0	195.0	1,800	2,800	100KHz/1V
SAM4040R22MESH	4.70	4.20	2.00	0.22	uH	±20%	6.0	6.6	9,000	12,500	100KHz/1V
SAM4040R47MESH				0.47	uH	±20%	12.5	14.0	7,000	9,500	100KHz/1V
SAM4040R68MESH				0.68	uH	±20%	19.4	21.0	5,200	8,000	100KHz/1V
SAM40401R0MESH				1.00	uH	±20%	24.0	27.0	4,800	7,000	100KHz/1V
SAM40401R5MESH				1.50	uH	±20%	36.0	44.0	4,000	6,300	100KHz/1V
SAM40402R2MESH				2.20	uH	±20%	52.0	58.0	3,600	5,900	100KHz/1V
SAM40403R3MESH				3.30	uH	±20%	74.0	87.0	3,000	4,000	100KHz/1V
SAM40404R7MESH				4.70	uH	±20%	88.0	100.0	2,800	3,200	100KHz/1V
SAM40406R8MESH				6.80	uH	±20%	162.0	178.0	2,000	2,100	100KHz/1V
SAM4040100MESH				10.00	uH	±20%	256.0	282.0	1,600	1,800	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.
※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.
※Operating temperature -55 to +150℃

● SAM5050

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM5050R22NESE	5.70	5.20	1.50	0.22	uH	±30%	5.8	7.0	10,000	17,000	100KHz/1V
SAM50501R0MESE				1.00	uH	±20%	20.0	23.0	6,500	9,000	100KHz/1V
SAM50501R5MESE				1.50	uH	±20%	46.0	53.0	4,200	7,000	100KHz/1V
SAM50502R2MESE				2.20	uH	±20%	58.0	64.0	3,300	6,000	100KHz/1V
SAM50503R3MESE				3.30	uH	±20%	70.0	80.0	3,200	4,500	100KHz/1V
SAM50504R7MESE				4.70	uH	±20%	103.0	115.0	3,000	4,000	100KHz/1V
SAM50506R8MESE				6.80	uH	±20%	167.0	180.0	2,500	3,200	100KHz/1V
SAM5050100MESE				10.00	uH	±20%	220.0	246.0	2,000	3,000	100KHz/1V
SAM50501R0MESG	5.70	5.20	1.80	1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50504R7MESG				4.70	uH	±20%	78.0	85.0	3,500	4,000	100KHz/1V
SAM50506R8MESG				6.80	uH	±20%	107.0	120.0	2,800	3,400	100KHz/1V
SAM5050100MESG				10.00	uH	±20%	140.0	155.0	2,500	3,000	100KHz/1V
SAM5050R22MESH	5.70	5.20	2.00	0.22	uH	±20%	4.1	4.5	12,000	20,000	100KHz/1V
SAM5050R24MESH				0.24	uH	±20%	5.0	5.8	11,700	18,500	100KHz/1V
SAM5050R33MESH				0.33	uH	±20%	5.5	5.9	11,500	16,000	100KHz/1V
SAM5050R47MESH				0.47	uH	±20%	8.0	10.0	10,500	15,500	100KHz/1V
SAM5050R68MESH				0.68	uH	±20%	10.5	13.0	9,500	12,000	100KHz/1V
SAM50501R0MESH				1.00	uH	±20%	15.0	17.0	8,000	9,500	100KHz/1V
SAM50501R2MESH				1.20	uH	±20%	19.5	22.5	7,000	9,000	100KHz/1V
SAM50501R5MESH				1.50	uH	±20%	24.2	27.5	6,000	8,500	100KHz/1V
SAM50502R2MESH				2.20	uH	±20%	30.0	35.0	5,000	6,500	100KHz/1V
SAM50503R3MESH				3.30	uH	±20%	49.0	55.0	4,500	5,500	100KHz/1V
SAM50504R7MESH				4.70	uH	±20%	75.3	81.3	3,500	4,500	100KHz/1V
SAM50505R6MESH				5.60	uH	±20%	85.2	92.0	3,000	4,000	100KHz/1V
SAM50506R8MESH				6.80	uH	±20%	107.0	120.0	2,800	3,600	100KHz/1V
SAM5050100MESH				10.00	uH	±20%	140.0	155.0	2,400	3,400	100KHz/1V
SAM50501R0MESL	5.70	5.20	3.00	1.00	uH	±20%	13.0	14.0	7,000	11,000	100KHz/1V
SAM50501R5MESL				1.50	uH	±20%	18.0	25.0	6,200	9,500	100KHz/1V
SAM50502R2MESL				2.20	uH	±20%	29.0	35.0	5,500	9,000	100KHz/1V
SAM50503R3MESL				3.30	uH	±20%	32.0	38.0	5,000	7,000	100KHz/1V
SAM50503R6MESL				3.60	uH	±20%	34.0	40.0	4,700	7,000	100KHz/1V
SAM50504R7MESL				4.70	uH	±20%	50.0	60.0	4,400	6,000	100KHz/1V
SAM50506R8MESL				6.80	uH	±20%	75.0	88.5	3,400	3,800	100KHz/1V
SAM5050100MESL				10.00	uH	±20%	95.0	114.0	2,500	3,500	100KHz/1V
SAM5050150MESL				15.00	uH	±20%	135.0	160.0	2,400	2,500	100KHz/1V
SAM5050220MESL				22.00	uH	±20%	230.0	275.0	2,300	2,100	100KHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SAM50504R7MESN	5.70	5.20	4.00	4.70	uH	±20%	31.5	38.0	5,100	5,000	7,500	6,300	100KHz/1V
SAM50506R8MESN				6.80	uH	±20%	47.0	56.0	4,800	4,300	6,300	5,200	100KHz/1V
SAM5050100MESN				10.00	uH	±20%	75.0	85.0	3,300	3,000	5,800	4,800	100KHz/1V
SAM5050150MESN				15.00	uH	±20%	115.0	130.0	2,800	2,700	2,900	2,400	100KHz/1V
SAM5050220MESN				22.00	uH	±20%	170.0	190.0	2,500	2,400	2,500	2,100	100KHz/1V
SAM5050330MESN				33.00	uH	±20%	250.0	290.0	1,900	1,700	2,300	2,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

- SAM7070

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM7070R22MESE	7.00	6.60	1.50	0.22	uH	±20%	5.1	5.8	11,000	22,000	100KHz/1V
SAM7070R33MESE				0.33	uH	±20%	6.8	7.8	10,000	19,500	100KHz/1V
SAM7070R47MESE				0.47	uH	±20%	8.5	9.8	9,500	16,000	100KHz/1V
SAM7070R56MESE				0.56	uH	±20%	9.5	11.0	9,000	14,000	100KHz/1V
SAM7070R68MESE				0.68	uH	±20%	12.5	14.5	8,000	12,000	100KHz/1V
SAM7070R82MESE				0.82	uH	±20%	15.0	17.0	7,000	10,000	100KHz/1V
SAM70701R0MESE				1.00	uH	±20%	18.5	21.0	5,500	9,000	100KHz/1V
SAM70701R2MESE				1.20	uH	±20%	21.0	30.0	5,400	8,500	100KHz/1V
SAM70701R5MESE				1.50	uH	±20%	37.0	42.5	5,000	7,000	100KHz/1V
SAM70702R2MESE				2.20	uH	±20%	41.0	50.0	4,900	6,100	100KHz/1V
SAM70703R3MESE				3.30	uH	±20%	54.0	63.0	3,300	5,500	100KHz/1V
SAM70704R7MESE				4.70	uH	±20%	76.0	85.0	3,000	5,000	100KHz/1V
SAM70706R8MESE				6.80	uH	±20%	125.0	135.0	2,500	4,000	100KHz/1V
SAM7070100MESE				10.00	uH	±20%	165.0	175.0	2,000	3,000	100KHz/1V
SAM7070R10MESG	7.20	6.60	1.80	0.10	uH	±20%	1.9	2.3	18,000	30,000	100KHz/1V
SAM7070R22MESG				0.22	uH	±20%	4.5	5.2	14,000	29,000	100KHz/1V
SAM7070R33MESG				0.33	uH	±20%	5.2	6.8	12,000	22,000	100KHz/1V
SAM7070R47MESG				0.47	uH	±20%	7.3	8.4	11,000	17,000	100KHz/1V
SAM7070R68MESG				0.68	uH	±20%	10.8	12.7	9,000	16,000	100KHz/1V
SAM7070R82MESG				0.82	uH	±20%	13.4	15.9	8,000	14,000	100KHz/1V
SAM70701R0MESG				1.00	uH	±20%	14.5	17.0	7,000	12,000	100KHz/1V
SAM70701R5MESG				1.50	uH	±20%	20.0	26.0	6,000	10,000	100KHz/1V
SAM70702R2MESG				2.20	uH	±20%	31.0	35.0	5,000	8,000	100KHz/1V
SAM70703R3MESG				3.30	uH	±20%	56.0	60.0	3,500	7,000	100KHz/1V
SAM70704R7MESG				4.70	uH	±20%	68.0	75.0	3,200	5,500	100KHz/1V
SAM70706R8MESG				6.80	uH	±20%	101.0	110.0	2,800	4,500	100KHz/1V
SAM70708R2MESG				8.20	uH	±20%	124.0	142.0	2,500	4,000	100KHz/1V
SAM7070100MESG				10.00	uH	±20%	155.0	166.0	2,000	3,000	100KHz/1V
SAM7070R10NESL	7.20	6.60	3.00	0.10	uH	±20%	1.5	1.7	32,500	60,000	100KHz/1V
SAM7070R15NESL				0.15	uH	±20%	1.5	1.8	24,000	41,000	100KHz/1V
SAM7070R22MESL				0.22	uH	±20%	2.5	2.8	23,000	34,000	100KHz/1V
SAM7070R33MESL				0.33	uH	±20%	3.0	3.5	21,000	25,000	100KHz/1V
SAM7070R47MESL				0.47	uH	±20%	3.5	4.1	18,000	20,000	100KHz/1V
SAM7070R56MESL				0.56	uH	±20%	3.9	4.5	16,500	18,000	100KHz/1V
SAM7070R68MESL				0.68	uH	±20%	4.5	5.0	16,000	17,000	100KHz/1V
SAM7070R82MESL				0.82	uH	±20%	7.0	7.5	14,000	16,000	100KHz/1V
SAM70701R0MESL				1.00	uH	±20%	8.5	9.0	12,000	15,000	100KHz/1V
SAM70701R5MESL				1.50	uH	±20%	10.6	12.1	10,000	13,000	100KHz/1V
SAM70702R2MESL				2.20	uH	±20%	15.5	18.0	8,000	10,000	100KHz/1V
SAM70703R3MESL				3.30	uH	±20%	25.0	28.0	6,500	9,000	100KHz/1V
SAM70704R7MESL				4.70	uH	±20%	32.5	35.0	5,500	6,500	100KHz/1V
SAM70705R6MESL				5.60	uH	±20%	36.0	42.0	5,000	6,250	100KHz/1V
SAM70706R8MESL				6.80	uH	±20%	43.9	50.0	4,500	6,000	100KHz/1V
SAM70708R2MESL				8.20	uH	±20%	54.0	60.0	4,500	6,000	100KHz/1V
SAM7070100MESL				10.00	uH	±20%	62.0	68.0	4,000	5,500	100KHz/1V
SAM7070150MESL				15.00	uH	±20%	105.0	125.0	3,000	4,000	100KHz/1V
SAM7070220MESL				22.00	uH	±20%	144.0	160.0	2,500	3,000	100KHz/1V
SAM7070330MESL				33.00	uH	±20%	230.0	255.0	2,000	3,300	100KHz/1V
SAM7070470MESL				47.00	uH	±20%	285.0	320.0	1,750	2,450	100KHz/1V

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DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM70706R8MESN	7.20	6.60	4.00	6.80	uH	±20%	38.0	46.0	4,700	7,500	100KHz/1V
SAM7070330MESN				33.00	uH	±20%	190.0	228.0	2,500	3,000	100KHz/1V
SAM7070R36MESQ	7.20	6.60	5.00	0.36	uH	±20%	2.7	3.1	21,000	25,000	100KHz/1V
SAM7070R68MESQ				0.68	uH	±20%	3.3	3.6	18,000	17,000	100KHz/1V
SAM70701R0MESQ				1.00	uH	±20%	4.5	5.3	14,500	16,000	100KHz/1V
SAM70701R5MESQ				1.50	uH	±20%	6.0	7.5	11,500	15,000	100KHz/1V
SAM70702R2MESQ				2.20	uH	±20%	9.0	10.5	10,500	13,500	100KHz/1V
SAM70703R3MESQ				3.30	uH	±20%	14.0	15.0	9,000	10,000	100KHz/1V
SAM70704R7MESQ				4.70	uH	±20%	23.0	25.0	6,500	8,000	100KHz/1V
SAM70706R8MESQ				6.80	uH	±20%	31.5	35.5	5,500	6,500	100KHz/1V
SAM7070100MESQ				10.00	uH	±20%	42.0	50.0	4,500	5,000	100KHz/1V
SAM7070150MESQ				15.00	uH	±20%	76.0	85.0	3,800	4,600	100KHz/1V
SAM7070220MESQ				22.00	uH	±20%	105.0	120.0	3,000	3,700	100KHz/1V
SAM7070330MESQ				33.00	uH	±20%	130.0	145.0	2,800	3,200	100KHz/1V
SAM7070470MESQ				47.00	uH	±20%	162.0	178.0	2,300	2,500	100KHz/1V
SAM7070560MESQ				56.00	uH	±20%	235.0	290.0	1,800	2,200	100KHz/1V
SAM7070680MESQ				68.00	uH	±20%	280.0	320.0	1,700	2,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● SAM8080

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SAM80801R0MESN	8.65	8.00	4.00	1.00	uH	±20%	3.9	4.2	20,800	16,000	28,000	21,000	100KHz/1V
SAM80804R7MESN				4.70	uH	±20%	18.5	21.2	8,000	7,300	10,500	9,000	100KHz/1V
SAM80806R8MESN				6.80	uH	±20%	25.0	29.0	7,000	6,300	9,500	8,000	100KHz/1V
SAM8080100MESN				10.00	uH	±20%	36.0	43.0	6,000	5,700	7,700	6,500	100KHz/1V
SAM8080470MESN				47.00	uH	±20%	175.0	200.0	2,600	2,400	3,200	2,900	100KHz/1V
SAM80802R2MESW	8.70	8.20	5.50	2.20	uH	±20%	6.0	7.2	14,000	13,500	16,700	14,300	100KHz/1V
SAM80803R3MESW				3.30	uH	±20%	9.0	10.5	11,900	11,500	14,500	12,000	100KHz/1V
SAM80804R7MESW				4.70	uH	±20%	12.3	15.0	8,900	8,000	13,500	11,500	100KHz/1V
SAM80806R8MESW				6.80	uH	±20%	20.0	24.0	6,800	6,500	11,500	9,500	100KHz/1V
SAM8080100MESW				10.00	uH	±20%	32.0	36.0	6,100	5,900	8,800	7,300	100KHz/1V
SAM8080150MESW				15.00	uH	±20%	44.0	52.8	4,900	4,400	6,300	5,100	100KHz/1V
SAM8080220MESW				22.00	uH	±20%	56.0	67.0	4,300	4,200	6,200	5,200	100KHz/1V
SAM8080330MESW				33.00	uH	±20%	100.0	115.0	3,600	3,400	5,300	4,300	100KHz/1V
SAM8080470MESW				47.00	uH	±20%	133.0	146.0	2,950	2,850	4,500	3,700	100KHz/1V
SAM8080101MESW				100.00	uH	±20%	285.0	315.0	2,000	1,900	2,900	2,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● SAM1010

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Maz.	Typ	Max.	
SAM1010R47METN	11.20	10.00	4.00	0.47	uH	±20%	2.5	3.0	- -	21,000	- -	35,000	100KHz/1V
SAM1010R68METN				0.68	uH	±20%	3.0	3.3	- -	18,000	- -	29,000	100KHz/1V
SAM10101R0METN				1.00	uH	±20%	3.3	3.6	- -	17,000	- -	28,000	100KHz/1V
SAM10101R2METN				1.20	uH	±20%	4.5	5.4	- -	16,000	- -	22,000	100KHz/1V
SAM10101R5METN				1.50	uH	±20%	4.7	5.6	- -	15,000	- -	21,000	100KHz/1V
SAM10102R2MESN	11.20	10.00	4.00	2.20	uH	±20%	6.0	7.0	- -	12,000	- -	18,000	100KHz/1V
SAM10103R3MESN				3.30	uH	±20%	10.8	11.8	- -	10,000	- -	16,000	100KHz/1V
SAM10104R7MESN				4.70	uH	±20%	17.0	20.0	- -	8,500	- -	15,000	100KHz/1V
SAM10105R6MESN				5.60	uH	±20%	20.0	23.0	- -	8,000	- -	14,000	100KHz/1V
SAM10106R8MESN				6.80	uH	±20%	22.5	25.0	- -	7,000	- -	12,000	100KHz/1V
SAM10108R2MESN				8.20	uH	±20%	25.0	27.0	- -	6,500	- -	9,000	100KHz/1V
SAM1010100MESN				10.00	uH	±20%	27.0	30.0	- -	6,500	- -	8,500	100KHz/1V
SAM1010150MESN				15.00	uH	±20%	40.0	45.0	- -	6,300	- -	7,000	100KHz/1V
SAM1010220MESN				22.00	uH	±20%	60.0	66.0	- -	5,000	- -	5,500	100KHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Maz.	Typ	Max.	
SAM1010330MESN	11.20	10.00	4.00	33.00	uH	±20%	85.0	92.0	- -	4,000	- -	4,500	100KHz/1V
SAM1010470MESN				47.00	uH	±20%	130.0	145.0	- -	3,300	- -	3,500	100KHz/1V
SAM1010680MESN				68.00	uH	±20%	178.0	195.0	- -	2,300	- -	3,000	100KHz/1V
SAM1010820MESN				82.00	uH	±20%	230.0	265.0	- -	2,250	- -	2,800	100KHz/1V
SAM1010101MESN				100.00	uH	±20%	240.0	288.0	- -	2,200	- -	2,500	100KHz/1V
SAM10103R3MESW	11.20	10.00	5.50	3.30	uH	±20%	6.5	7.4	15,500	14,000	21,500	18,500	100KHz/1V
SAM10104R7MESW				4.70	uH	±20%	10.0	12.0	10,500	10,000	20,500	17,000	100KHz/1V
SAM10106R8MESW				6.80	uH	±20%	13.0	17.0	9,600	9,500	16,500	13,500	100KHz/1V
SAM1010100MESW				10.00	uH	±20%	21.0	24.2	8,700	7,800	13,000	11,000	100KHz/1V
SAM1010150MESW				15.00	uH	±20%	30.0	33.5	6,700	6,400	9,700	8,200	100KHz/1V
SAM1010220MESW				22.00	uH	±20%	47.0	53.0	6,000	5,400	8,800	7,200	100KHz/1V
SAM1010330MESW				33.00	uH	±20%	67.0	77.1	4,500	4,200	6,200	5,200	100KHz/1V
SAM1010470MESW				47.00	uH	±20%	98.0	114.0	4,100	3,600	4,900	4,200	100KHz/1V
SAM1010680MESW				68.00	uH	±20%	132.0	152.0	3,300	3,000	4,800	4,000	100KHz/1V
SAM1010101MESW				100.00	uH	±20%	200.0	230.0	2,800	2,500	3,600	3,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

- SAM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Max.	Max.	
SAM1313R68METQ	13.90	12.8	5.00	0.68	uH	±20%	2.5	3.0	23,000	38,000	100KHz/1V
SAM13131R0METQ				1.00	uH	±20%	3.0	3.6	22,000	28,000	100KHz/1V
SAM13131R5METQ				1.50	uH	±20%	3.5	4.2	18,500	23,000	100KHz/1V
SAM13132R2MESQ	13.9	12.8	5.00	2.20	uH	±20%	4.0	5.0	15,000	24,000	100KHz/1V
SAM13133R3MESQ				3.30	uH	±20%	5.9	7.0	14,000	22,000	100KHz/1V
SAM13134R7MESQ				4.70	uH	±20%	8.5	10.5	13,000	19,000	100KHz/1V
SAM13136R8MESQ				6.80	uH	±20%	13.0	15.5	12,000	14,000	100KHz/1V
SAM1313100MESQ				10.00	uH	±20%	19.0	22.0	9,000	12,000	100KHz/1V
SAM1313150MESQ				15.00	uH	±20%	26.0	31.0	5,900	8,400	100KHz/1V
SAM1313220MESQ				22.00	uH	±20%	51.0	58.0	4,500	6,500	100KHz/1V
SAM13132R2MESR	13.90	12.80	6.00	2.20	uH	±20%	3.8	4.1	21,000	25,000	100KHz/1V
SAM13133R3MESR				3.30	uH	±20%	5.3	6.4	17,000	22,000	100KHz/1V
SAM13134R7MESR				4.70	uH	±20%	7.2	9.0	16,000	18,000	100KHz/1V
SAM13136R8MESR				6.80	uH	±20%	9.5	12.0	12,000	15,000	100KHz/1V
SAM13138R2MESR				8.20	uH	±20%	13.6	16.0	11,000	13,500	100KHz/1V
SAM1313100MESR				10.00	uH	±20%	18.0	20.7	10,000	12,500	100KHz/1V
SAM1313120MESR				12.00	uH	±20%	20.0	23.0	7,000	10,000	100KHz/1V
SAM1313150MESR				15.00	uH	±20%	25.0	29.0	6,000	9,000	100KHz/1V
SAM1313220MESR				22.00	uH	±20%	34.0	39.5	5,000	7,500	100KHz/1V
SAM1313270MESR				27.00	uH	±20%	49.0	56.0	4,500	6,500	100KHz/1V
SAM1313330MESR				33.00	uH	±20%	65.0	75.0	4,000	6,000	100KHz/1V
SAM1313470MESR				47.00	uH	±20%	80.0	90.0	3,500	5,500	100KHz/1V
SAM1313680MESR				68.00	uH	±20%	120.0	140.0	3,000	4,500	100KHz/1V
SAM1313101MESR				100.00	uH	±20%	180.0	200.0	2,500	3,500	100KHz/1V
SAM1313121MESR				120.00	uH	±20%	185.0	220.0	2,900	3,700	100KHz/1V
SAM1313151MESR				150.00	uH	±20%	250.0	300.0	2,200	2,700	100KHz/1V
SAM13133R3MELR	13.90	12.80	6.00	3.30	uH	±20%	5.3	6.4	17,000	22,000	100KHz/1V
SAM13134R7MELR				4.70	uH	±20%	7.2	9.0	16,000	18,000	100KHz/1V
SAM13136R8MELR				6.80	uH	±20%	9.5	12.0	12,000	15,000	100KHz/1V
SAM13138R2MELR				8.20	uH	±20%	13.6	16.0	11,000	13,500	100KHz/1V
SAM1313100MELR				10.00	uH	±20%	18.0	20.7	10,000	12,500	100KHz/1V
SAM1313120MELR				12.00	uH	±20%	20.0	23.0	7,000	10,000	100KHz/1V
SAM1313150MELR				15.00	uH	±20%	25.0	29.0	6,000	9,000	100KHz/1V
SAM1313220MELR				22.00	uH	±20%	34.0	39.5	5,000	7,500	100KHz/1V
SAM1313270MELR				27.00	uH	±20%	49.0	56.0	4,500	6,500	100KHz/1V
SAM1313330MELR				33.00	uH	±20%	65.0	75.0	4,000	6,000	100KHz/1V
SAM1313470MELR				47.00	uH	±20%	80.0	90.0	3,500	5,500	100KHz/1V
SAM1313680MELR				68.00	uH	±20%	120.0	140.0	3,000	4,500	100KHz/1V
SAM1313101MELR				100.00	uH	±20%	180.0	200.0	2,500	3,500	100KHz/1V
SAM1313121MELR				120.00	uH	±20%	185.0	220.0	2,900	3,700	100KHz/1V
SAM1313151MELR				150.00	uH	±20%	250.0	300.0	2,200	2,700	100KHz/1V

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※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※SAM1313_ELR：Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 40% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● SAM1717

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)	Saturation Current Isat (mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SAM17171R0MESU	17.15	17.00	7.00	2.20	uH	±20%	4.0	5.0	15,000	24,000	100KHz/1V
SAM17173R3MESU				3.30	uH	±20%	5.9	7.0	14,000	22,000	100KHz/1V
SAM17174R7MESU				4.70	uH	±20%	8.5	10.5	13,000	19,000	100KHz/1V
SAM1717100MESU				6.80	uH	±20%	13.0	15.5	12,000	14,000	100KHz/1V
SAM1717220MESU				10.00	uH	±20%	19.0	22.0	9,000	12,000	100KHz/1V
SAM1717330MESU				15.00	uH	±20%	26.0	31.0	5,900	8,400	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● SAM2222

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SAM22223R3MESX	22.50	22.00	13.00	3.30	uH	±20%	1.5	1.75	50,000	48,000	65,000	55,000	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Operating temperature -55 to +150℃

■ Part Number & Characteristic (High Efficiency Molding for Automotive) (AIM Series)

● AIM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
AIM1313220MESN	13.90	12.80	4.00	22.00	uH	±20%	42.5	52.5	6,100	6,000	9,500	7,500	100KHz/1V
AIM1313330MESN				33.00	uH	±20%	63.0	73.0	5,100	5,000	7,300	6,000	100KHz/1V
AIM1313101MESN				100.00	uH	±20%	215.0	230.0	2,600	2,400	3,800	3,100	100KHz/1V
AIM1313220MESR	13.90	12.80	6.00	22.00	uH	± 20%	29.0	34.0	7,700	7,200	11,000	9,500	100KHz/1V
AIM1313330MESR				33.00	uH	± 20%	43.0	51.0	6,500	6,000	9,000	7,500	100KHz/1V
AIM1313470MESR				47.00	uH	± 20%	60.0	70.0	5,300	4,800	7,800	6,500	100KHz/1V
AIM1313680MESR				68.00	uH	± 20%	90.0	105.0	4,100	3,900	7,000	5,700	100KHz/1V
AIM1313101MESR				100.00	uH	± 20%	130.0	155.0	3,700	3,500	5,300	4,500	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

■ Part Number & Characteristic (Double Molding for Automotive) (ACM Series)

● ACM7070

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM70704R7MESR	7.70	7.20	6.00	4.70	uH	±20%	29.0	35.0	4,900	4,800	11,500	9,500	100KHz/1V
ACM7070100MESR				10.00	uH	±20%	60.0	72.0	3,800	3,500	7,000	5,800	100KHz/1V
ACM7070150MESR				15.00	uH	±20%	75.0	90.0	3,700	3,400	6,000	5,100	100KHz/1V
ACM7070220MESR				22.00	uH	±20%	112.0	134.0	2,600	2,400	4,800	4,000	100KHz/1V
ACM7070330MESR				33.00	uH	±20%	180.0	210.0	2,400	2,300	4,600	3,600	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● ACM1010

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM1010100MESY	10.80	10.0	8.00	10.00	uH	±20%	23.0	27.0	6,800	6,600	11,500	9,400	100KHz/1V
ACM1010150MESY				15.00	uH	±20%	34.0	40.8	6,000	5,800	9,200	7,800	100KHz/1V
ACM1010220MESY				22.00	uH	±20%	54.0	63.0	4,700	4,600	9,000	7,500	100KHz/1V
ACM1010470MESY				47.00	uH	±20%	108.0	129.6	3,300	3,100	5,800	4,900	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

● ACM1313

DARFON P/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (mA)		Saturation Current Isat (mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Max.	Typ.	Max.	
ACM1313100MESS	12.00	12.00	6.50	10.00	uH	± 20%	25.0	30.0	7,200	7,000	11,000	9,000	100KHz/1V
ACM1313150MESS				15.00	uH	± 20%	37.5	45.0	5,800	5,500	9,200	7,800	100KHz/1V
ACM1313220MESS				22.00	uH	± 20%	55.0	64.0	4,750	4,500	8,200	6,700	100KHz/1V
ACM1313330MESS				33.00	uH	± 20%	85.0	95.0	3,900	3,700	5,800	4,700	100KHz/1V
ACM1313100MESY	12.00	12.00	8.00	10.00	uH	± 20%	20.0	24.0	7,700	7,500	12,500	10,500	100KHz/1V
ACM1313150MESY				15.00	uH	± 20%	30.0	35.0	6,900	6,600	10,200	8,400	100KHz/1V
ACM1313220MESV	12.00	12.00	9.00	22.00	uH	±20%	37.5	45.0	6,400	6,200	9,200	7,700	100KHz/1V
ACM1313330MESV				33.00	uH	±20%	56.0	67.0	5,100	4,900	7,600	6,400	100KHz/1V
ACM1313220MESO	12.00	12.00	10.00	22.00	uH	±20%	33.0	40.0	6,600	6,500	8,800	7,400	100KHz/1V
ACM1313330MESO				33.00	uH	±20%	50.0	58.0	5,500	5,300	7,300	6,200	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

Coating Inductors (SPS / SPN Series)

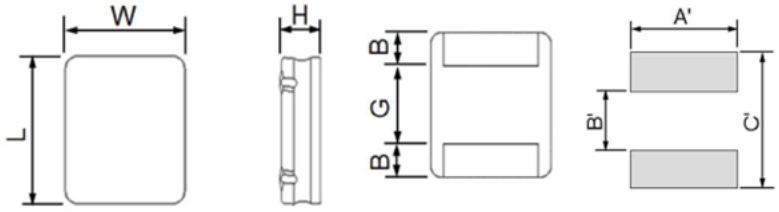
■ Feature

1. Small and low profile inductor
2. It corresponds to high current
3. Simple and original magnetic shield structure

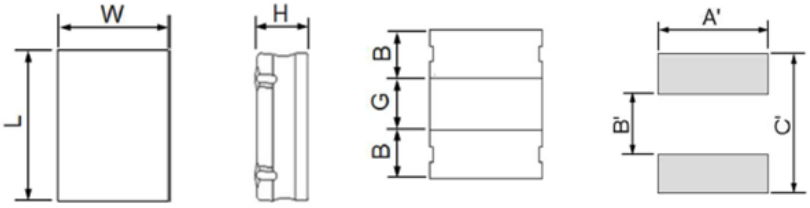
■ Application

For small DC/DC converter (HDD, DVC, DSC, LCD display, notebook, tablet, Bluetooth earphone, cellular phones)

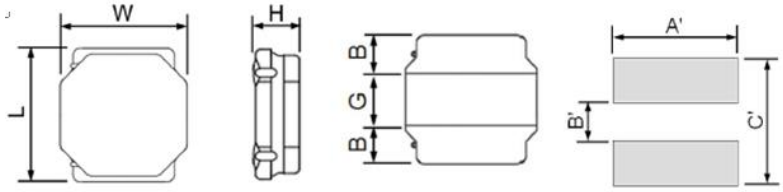
■ External Dimension



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS2016□□□□PCA	2.0±0.3	1.6±0.3	1.0+0.1/-0.2	0.6±0.2	0.8±0.3	1.6	0.6	2.4	7"	3,000
SPS2520□□□□PCA	2.5±0.3	2.0±0.3	1.0+0.1/-0.2	0.85±0.2	0.95±0.3	2.2	0.6	2.6	7"	3,000

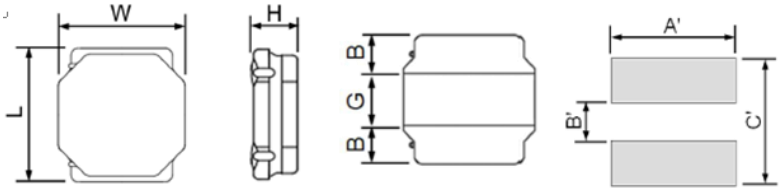


Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS2520□□□□PCC	2.5±0.3	2.0±0.3	1.2+0.1/-0.2	0.85±0.2	0.8±0.3	2.1	0.8	2.6	7"	3,000
SPN2016□□□□PSA	2.0±0.3	1.6±0.3	1.0+0.1/-0.2	0.77±0.2	0.6±0.3	1.6	0.3	2.4	7"	2,000
SPN2520□□□□PSA	2.5±0.3	2.0±0.3	1.0+0.1/-0.2	0.9±0.3	0.85±0.35	2.1	0.6	2.8	7"	2,000
SPN2520□□□□PSC	2.5±0.3	2.0±0.3	1.2+0.1/-0.2	0.85±0.2	0.85±0.35	2.1	0.6	2.8	7"	2,000

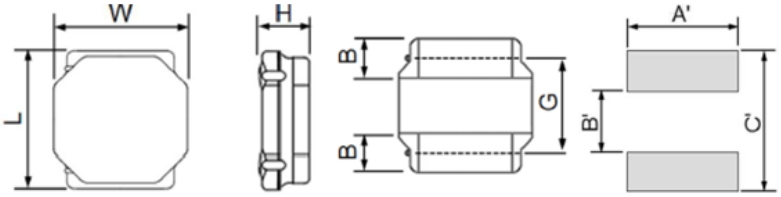


Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS3030□□□□PCA	3.0±0.2	3.0±0.2	1.2+0.1/-0.2	0.9±0.2	1.2±0.3	2.7	1.1	3.1	7"	2,000
SPS4040□□□□PCA	4.0±0.2	4.0±0.2	1.0MAX	1.1±0.4	2.5±0.4	3.7	1.6	4.1	7"	1,000
SPS4040□□□□PCH	4.1±0.2	4.1±0.2	2.1Max	1.2±0.3	1.6±0.4	4.1	1.6	4.1	7"	700
SPN3030□□□□P_A	3.0±0.2	3.0±0.2	1.0+0.1/-0.2	1.0±0.3	1.0±0.3	2.7	0.8	3.0	7"	3,000
SPN3030□□□□PSC	3.0±0.2	3.0±0.2	1.3MAX	0.9±0.2	1.2±0.3	2.7	0.7	3.5	7"	2,000
SPN3030□□□□PSE	3.0±0.2	3.0±0.2	1.5±0.2	0.9±0.2	1.2±0.3	2.7	0.7	3.5	7"	2,000
SPN4040□□□□PCA	4.0±0.2	4.0±0.2	1.0Max	1.2 Ref	- -	3.7	1.6	4.0	7"	1,000
SPN4040□□□□ESC	4.0±0.2	4.0±0.2	1.2Max	1.05±0.4	1.9±0.4	4.1	1.9	4.1	13"	4,500

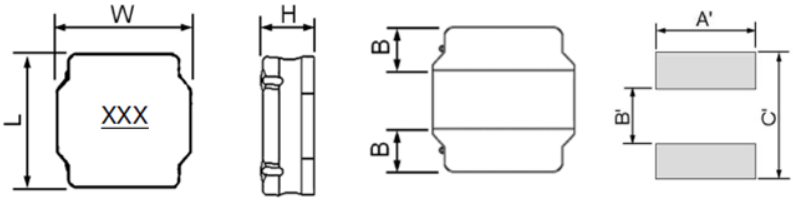
This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPN4040□□□□ESG	4.0±0.2	4.0±0.2	1.8MAX	1.2±0.4	1.6±0.4	4.1	1.5	4.1	13"	3,500
SPN4040□□□□ESL	4.0±0.3	4.0±0.3	3.1MAX	1.3±0.4	1.45±0.45	4.1	0.8	4.1	13"	2,000
SPN5050□□□□PSH	5.0±0.2	5.0±0.2	2.0±0.2	1.3±0.5	2.0±0.4	4.7	1.5	5.5	7"	800
SPN5050□□□□ESN	5.0±0.2	5.0±0.2	4.0+0.1/-0.3	1.7±0.3	1.8±0.4	4.7	1.1	5.5	13"	1,500
SPN6060□□□MPSC	6.0±0.3	6.0±0.3	1.2+0.1/-0.2	1.7±0.4	2.6±0.4	5.7	1.9	6.7	7"	1,000
SPN6060□□□□ESH	6.0±0.2	6.0±0.2	2.0Max	1.6±0.4	2.4±0.4	5.7	3.1	6.3	13"	2,500
SPN6060□□□□ESK	6.0±0.2	6.0±0.2	2.8Max	1.6±0.4	2.6±0.4	5.7	3.1	6.3	13"	1,500
SPN6060□□□□ESP	6.0±0.2	6.0±0.2	4.5Max	1.8±0.4	2.3±0.4	5.7	3.1	6.3	13"	1,500
SPN8080□□□□ESN	8.0±0.2	8.0±0.2	4.2Max	2.1±0.4	3.8±0.4	7.7	3.8	8.0	13"	1,000



Series	L (mm)	W (mm)	H (mm)	B (mm)	G (mm)	Recommended Land Patterns			Package	
						A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPS3030□□□□PCC	3.0±0.2	3.0±0.2	1.2 MAX	0.9±0.2	1.9±0.2	2.7	1.2	3.2	7"	2,000
SPS4040□□□□PCC	4.0±0.2	4.0±0.2	1.2Max	1.1±0.2	2.5±0.2	3.7	1.6	4.1	7"	1,000



Series	L (mm)	W (mm)	H (mm)	B (mm)	Recommended Land Patterns			Package	
					A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SPN6060□□□NPSC	6.0±0.2	6.0±0.2	1.2±0.1	1.35±0.2	5.7	3.1	6.3	7"	1,000

*New Series

For some special parts, please see the "Part Number & Characteristic" for detail specification

■ Part Numbers & Characteristic(SPS Series for Metal Coating)

● SPS2016

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS2016R47NPCA	2.00	1.60	1.00	0.47	uH	± 30%	40.0	48.0	3,600	3,400	4,300	3,600	1MHz/1V
SPS2016R68NPCA				0.68	uH	± 30%	47.0	56.0	2,850	2,600	3,600	3,000	1MHz/1V
SPS20161R0NPCA				1.00	uH	± 30%	63.0	75.0	2,700	2,500	3,000	2,400	1MHz/1V
SPS20161R5NPCA				1.50	uH	± 30%	100.0	120.0	2,250	2,150	2,150	1,800	1MHz/1V
SPS20162R2MPCA				2.20	uH	± 20%	135.0	160.0	1,750	1,600	1,850	1,550	1MHz/1V
SPS20163R3MPCA				3.30	uH	± 20%	193.0	230.0	1,700	1,500	1,500	1,250	1MHz/1V
SPS20164R7MPCA				4.70	uH	± 20%	280.0	340.0	1,300	1,250	1,200	1,000	1MHz/1V
SPS20166R8MPCA				6.80	uH	± 20%	450.0	540.0	1,020	970	1,000	840	1MHz/1V
SPS2016100MPCA				10.00	uH	± 20%	570.0	685.0	950	900	900	750	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPS2520

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS2520R47NPCA	2.50	2.00	1.00	0.47	uH	± 30%	55.0	65.0	3,100	3,000	5,500	4,000	1MHz/1V
SPS2520R47MPCA				0.47	uH	± 20%	55.0	65.0	3,100	3,000	5,500	4,000	1MHz/1V
SPS2520R68NPCA				0.68	uH	± 30%	52.0	62.0	3,100	2,700	4,400	4,050	1MHz/1V
SPS25201R0NPCA				1.00	uH	± 30%	67.0	80.0	2,950	2,550	4,100	3,350	1MHz/1V
SPS25201R5NPCA				1.50	uH	± 30%	88.0	106.0	2,250	1,950	3,450	2,850	1MHz/1V
SPS25202R2MPCA				2.20	uH	± 20%	124.0	150.0	1,850	1,550	3,200	2,600	1MHz/1V
SPS25203R3MPCA				3.30	uH	± 20%	185.0	222.0	1,450	1,250	2,500	2,100	1MHz/1V
SPS25204R7MPCA				4.70	uH	± 20%	240.0	290.0	1,300	1,100	2,150	1,750	1MHz/1V
SPS25206R8MPCA				6.80	uH	± 20%	360.0	435.0	1,150	960	1,700	1,400	1MHz/1V
SPS2520100MPCA				10.00	uH	± 20%	440.0	530.0	960	850	1,550	1,280	1MHz/1V
SPS2520R47NPCC	2.50	2.00	1.20	0.47	uH	± 30%	28.5	34.5	4,600	4,200	5,500	4,600	1MHz/1V
SPS2520R68NPCC				0.68	uH	± 30%	33.5	40.2	3,900	3,400	4,000	3,300	1MHz/1V
SPS25201R0NPCC				1.00	uH	± 30%	46.5	55.5	3,500	3,200	3,700	3,000	1MHz/1V
SPS25201R2NPCC				1.20	uH	± 30%	57.0	68.5	3,400	3,150	3,550	2,950	1MHz/1V
SPS25201R5NPCC				1.50	uH	± 30%	66.5	80.0	3,000	2,800	2,900	2,400	1MHz/1V
SPS25202R2MPCC				2.20	uH	± 20%	93.0	111.0	2,600	2,300	2,500	2,100	1MHz/1V
SPS25203R3MPCC				3.30	uH	± 20%	128.0	154.0	2,200	2,000	1,900	1,600	1MHz/1V
SPS25204R7MPCC				4.70	uH	± 20%	190.0	230.0	1,850	1,700	1,600	1,300	1MHz/1V
SPS25206R8MPCC				6.80	uH	± 20%	220.0	265.0	1,600	1,500	1,350	1,100	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPS3030

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS3030R47MPCA	3.00	3.00	1.00	0.47	uH	± 20%	33.0	39.0	4,500	3,900	6,500	5,400	1MHz/1V
SPS30301R0MPCA				1.00	uH	± 20%	74.0	86.0	2,800	2,400	5,200	4,400	1MHz/1V
SPS30301R5MPCA				1.50	uH	± 20%	87.0	100.0	2,400	2,100	3,500	3,000	1MHz/1V
SPS30302R2MPCA				2.20	uH	± 20%	125.0	144.0	2,200	1,900	3,000	2,500	1MHz/1V
SPS30303R3MPCA				3.30	uH	± 20%	215.0	248.0	1,500	1,350	2,400	2,000	1MHz/1V
SPS30304R7MPCA				4.70	uH	± 20%	300.0	345.0	1,300	1,150	2,000	1,700	1MHz/1V
SPS30306R8MPCA				6.80	uH	± 20%	380.0	437.0	1,150	1,000	1,700	1,400	1MHz/1V
SPS3030100MPCA				10.00	uH	± 20%	500.0	575.0	1,000	850	1,300	1,100	1MHz/1V
SPS3030R33MPCC	3.00	3.00	1.20	0.33	uH	± 20%	17.0	20.0	6,400	5,500	8,700	6,400	1MHz/1V
SPS3030R47MPCC				0.47	uH	± 20%	23.0	27.0	5,500	4,700	7,500	6,300	1MHz/1V

This catalog contains typical product specifications. When you consider using our products, please check our product specification sheets. (Characteristic diagram, reliability information, application notes... etc.) https://www.darfon.com.tw/Component_Integration/en/

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS30301R0MPCC	3.00	3.00	1.20	1.00	uH	± 20%	43.0	50.0	3,900	3,300	5,100	4,300	1MHz/1V
SPS30301R5MPCC				1.50	uH	± 20%	64.0	74.0	3,000	2,500	4,100	3,400	1MHz/1V
SPS30302R2MPCC				2.20	uH	± 20%	97.0	112.0	2,400	2,100	3,600	2,800	1MHz/1V
SPS30303R3MPCC				3.30	uH	± 20%	145.0	167.0	1,900	1,650	2,700	2,100	1MHz/1V
SPS30304R7MPCC				4.70	uH	± 20%	228.0	263.0	1,550	1,350	2,300	1,800	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

- SPS4040

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPS4040R47MPCA	4.00	4.00	1.00	0.47	uH	± 20%	35.0	40.0	4,500	4,000	7,900	6,000	1MHz/1V
SPS40401R0MPCA				1.00	uH	± 20%	60.0	69.0	3,500	3,000	5,700	4,700	1MHz/1V
SPS40401R5MPCA				1.50	uH	± 20%	73.0	84.0	3,100	2,700	4,000	3,000	1MHz/1V
SPS40402R2MPCA				2.20	uH	± 20%	100.0	115.0	2,700	2,400	3,100	2,400	1MHz/1V
SPS40403R3MPCA				3.30	uH	± 20%	175.0	200.0	2,000	1,800	2,600	2,000	1MHz/1V
SPS40404R7MPCA				4.70	uH	± 20%	220.0	250.0	1,900	1,600	2,300	1,900	1MHz/1V
SPS40406R8MPCA				6.80	uH	± 20%	320.0	370.0	1,500	1,300	1,800	1,500	1MHz/1V
SPS4040100MPCA				10.00	uH	± 20%	440.0	510.0	1,300	1,100	1,700	1,400	1MHz/1V
SPS4040R47MPCC	4.00	4.00	1.20	0.47	uH	± 20%	25.0	29.0	5,400	4,600	10,000	7,500	1MHz/1V
SPS40401R0MPCC				1.00	uH	± 20%	41.0	47.0	4,200	3,500	7,500	5,200	1MHz/1V
SPS40401R2MPCC				1.20	uH	± 20%	41.0	47.0	4,200	3,500	6,200	4,200	1MHz/1V
SPS40401R5MPCC				1.50	uH	± 20%	56.0	65.0	3,600	3,200	5,600	4,500	1MHz/1V
SPS40402R2MPCC				2.20	uH	± 20%	69.0	79.0	3,200	2,800	4,500	3,800	1MHz/1V
SPS40403R3MPCC				3.30	uH	± 20%	113.0	130.0	2,500	2,200	4,000	3,200	1MHz/1V
SPS40404R7MPCC				4.70	uH	± 20%	140.0	160.0	2,200	1,900	3,000	2,500	1MHz/1V
SPS40406R8MPCC				6.80	uH	± 20%	200.0	230.0	1,800	1,600	2,200	1,900	1MHz/1V
SPS4040100MPCC				10.00	uH	± 20%	280.0	330.0	1,600	1,400	2,000	1,700	1MHz/1V
SPS4040R33NPCH	4.10	4.10	2.10	0.33	uH	± 30%	11.0	13.0	8,100	7,000	21,000	16,000	1MHz/1V
SPS4040R47NPCH				0.47	uH	± 30%	11.0	13.0	8,100	7,000	15,000	10,000	1MHz/1V
SPS4040R68MPCH				0.68	uH	± 20%	14.0	16.0	6,000	5,200	12,000	8,000	1MHz/1V
SPS40401R0MPCH				1.00	uH	± 20%	23.5	28.0	5,100	4,400	9,400	7,000	1MHz/1V
SPS40401R5MPCH				1.50	uH	± 20%	35.0	41.0	4,700	4,100	9,400	6,800	1MHz/1V
SPS40402R2MPCH				2.20	uH	± 20%	47.0	54.0	4,000	3,500	7,500	5,400	1MHz/1V
SPS40403R3MPCH				3.30	uH	± 20%	66.0	75.0	3,300	3,000	5,200	3,700	1MHz/1V
SPS40404R7MPCH				4.70	uH	± 20%	93.0	107.0	2,800	2,500	5,000	3,500	1MHz/1V
SPS40406R8MPCH				6.80	uH	± 20%	138.0	158.0	2,300	2,000	4,000	2,900	1MHz/1V
SPS4040100MPCH				10.00	uH	± 20%	169.0	194.0	1,900	1,600	3,100	2,200	1MHz/1V
SPS4040150MPCH				15.00	uH	± 20%	275.0	350.0	1,650	1,120	2,400	1,300	1MHz/1V
SPS4040220MPCH				22.00	uH	± 20%	400.0	460.0	1,400	1,200	1,600	1,350	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

■ Part Numbers & Characteristic (SPN Series for Ferrite Coating)

● SPN2016

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN2016R47NPSA	2.00	1.60	1.00	0.47	uH	± 30%	49.0	59.0	2,600	2,340	2,850	2,560	1MHz/1V
SPN2016R68NPSA				0.68	uH	± 30%	71.0	86.0	2,250	2,000	2,300	2,200	1MHz/1V
SPN20161R0NPSA				1.00	uH	± 30%	96.0	115.0	1,600	1,440	1,880	1,690	1MHz/1V
SPN20161R5NPSA				1.50	uH	± 30%	143.0	172.0	1,400	1,260	1,630	1,460	1MHz/1V
SPN20161R8NPSA				1.80	uH	± 30%	175.0	210.0	1,350	1,210	1,500	1,350	1MHz/1V
SPN20162R2MPSA				2.20	uH	± 20%	196.0	235.0	1,300	1,170	1,400	1,260	1MHz/1V
SPN20163R3MPSA				3.30	uH	± 20%	247.0	296.0	1,050	940	1,000	900	1MHz/1V
SPN20164R7MPSA				4.70	uH	± 20%	370.0	444.0	900	810	850	760	1MHz/1V
SPN20166R8MPSA				6.80	uH	± 20%	664.0	797.0	600	540	800	720	1MHz/1V
SPN2016100MPSA				10.00	uH	± 20%	1108.0	1330.0	450	400	620	550	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPN2520

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ	Max.	Typ.	Max.	
SPN2520R50NPSA	2.50	2.00	1.00	0.50	uH	± 30%	32.0	38.0	2,670	2,400	3,300	3,000	1MHz/1V
SPN2520R68NPSA				0.68	uH	± 30%	49.0	59.0	2,400	2,160	2,700	2,430	1MHz/1V
SPN25201R0NPSA				1.00	uH	± 30%	68.0	82.0	1,980	1,780	2,400	2,200	1MHz/1V
SPN25201R5MPSA				1.50	uH	± 20%	95.0	114.0	1,800	1,490	1,750	1,580	1MHz/1V
SPN25202R2MPSA				2.20	uH	± 20%	136.0	163.0	1,680	1,260	1,550	1,390	1MHz/1V
SPN25203R3MPSA				3.30	uH	± 20%	207.0	248.0	990	1,040	1,300	1,170	1MHz/1V
SPN25204R7MPSA				4.70	uH	± 20%	269.0	323.0	810	890	1,200	1,080	1MHz/1V
SPN25206R8MPSA				6.80	uH	± 20%	404.0	485.0	720	730	850	770	1MHz/1V
SPN2520100MPSA				10.00	uH	± 20%	508.0	610.0	1,600	640	730	650	1MHz/1V
SPN2520R24NPSC	2.50	2.00	1.20	0.24	uH	± 30%	26.0	31.0	4,500	4,000	4,800	4,500	1MHz/1V
SPN2520R47NPSC				0.47	uH	± 30%	29.0	35.0	3,700	3,300	3,900	3,500	1MHz/1V
SPN2520R50NPSC				0.50	uH	± 30%	32.0	38.0	3,600	3,240	3,800	3,400	1MHz/1V
SPN2520R68NPSC				0.68	uH	± 30%	54.0	65.0	3,240	2,700	3,600	3,400	1MHz/1V
SPN25201R0NPSC				1.00	uH	± 30%	43.0	52.0	2,600	2,340	2,700	2,450	1MHz/1V
SPN25201R5MPSC				1.50	uH	± 20%	72.0	86.0	2,200	1,980	2,300	2,070	1MHz/1V
SPN25202R2MPSC				2.20	uH	± 20%	90.0	108.0	1,850	1,750	2,150	1,950	1MHz/1V
SPN25203R3MPSC				3.30	uH	± 20%	155.0	186.0	1,450	1,310	1,700	1,600	1MHz/1V
SPN25204R7MPSC				4.70	uH	± 20%	212.0	254.0	1,200	1,080	1,500	1,400	1MHz/1V
SPN25206R8MPSC				6.80	uH	± 20%	370.0	444.0	1,000	900	1,150	1,040	1MHz/1V
SPN2520100MPSC				10.00	uH	± 20%	750.0	900.0	750	680	850	700	1MHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPN3030

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)	Saturation Current DC Amps. Isat(mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Max.	Max.	
SPN30302R2NPSA	3.00	3.00	1.10	2.20	uH	±30%	95.0	114.0	1,100	1,100	100KHz/1V
SPN30304R7MPSA				4.70	uH	±20%	265.0	293.0	900	750	100KHz/1V
SPN3030100MPCA	3.00	3.00	1.10	10.00	uH	±20%	450.0	540.0	540	540	100KHz/1V
SPN30301R0NPSC	3.00	3.00	1.30	1.00	uH	± 30%	40.0	52.0	2,200	1,870	100KHz/1V
SPN30301R5NPSC				1.50	uH	± 30%	45.0	58.5	2,010	1,620	100KHz/1V
SPN30302R2NPSC				2.20	uH	± 30%	75.0	97.5	1,550	1,200	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)	Saturation Current DC Amps. Isat(mA)	Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Max.	Max.	
SPN30303R3MPSC	3.00	3.00	1.30	3.30	uH	± 20%	100.0	130.0	1,360	1,050	100KHz/1V
SPN30304R7MPSC				4.70	uH	± 20%	150.0	195.0	1,240	900	100KHz/1V
SPN30306R8MPSC				6.80	uH	± 20%	190.0	247.0	980	750	100KHz/1V
SPN3030100MPSC				10.00	uH	± 20%	320.0	416.0	830	600	100KHz/1V
SPN3030150MPSC				15.00	uH	± 20%	360.0	468.0	710	450	100KHz/1V
SPN3030220MPSC				22.00	uH	± 20%	645.0	838.5	530	420	100KHz/1V
SPN3030330MPSC				33.00	uH	± 20%	875.0	1137.5	460	360	100KHz/1V
SPN3030470MPSC				47.00	uH	± 20%	1450.0	1885.0	350	270	100KHz/1V
SPN30301R0NPSE	3.00	3.00	1.70	1.00	uH	± 30%	39.0	50.7	2,350	2,320	100KHz/1V
SPN30301R5NPSE				1.50	uH	± 30%	50.0	65.0	1,700	2,000	100KHz/1V
SPN30302R2MPSE				2.20	uH	± 20%	60.0	78.0	1,600	1,600	100KHz/1V
SPN30303R3MPSE				3.30	uH	± 20%	80.0	104.0	1,360	1,320	100KHz/1V
SPN30304R7MPSE				4.70	uH	± 20%	125.0	162.5	1,090	1,100	100KHz/1V
SPN30306R8MPSE				6.80	uH	± 20%	200.0	260.0	850	850	100KHz/1V
SPN3030100MPSE				10.00	uH	± 20%	250.0	325.0	770	720	100KHz/1V
SPN3030150MPSE				15.00	uH	± 20%	350.0	455.0	650	660	100KHz/1V
SPN3030220MPSE				22.00	uH	± 20%	460.0	598.0	570	520	100KHz/1V
SPN3030330MPSE				33.00	uH	± 20%	820.0	1066.0	430	440	100KHz/1V
SPN3030470MPSE				47.00	uH	± 20%	1250.0	1625.0	350	350	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

- SPN4040

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit	%	Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN40402R2NPCA	4.00	4.00	1.00	2.20	uH	±30%	15.0	180.0	- -	890	- -	1,150	100KHz/1V
SPN40406R8MPCA				6.80	uH	±20%	300.0	360.0	- -	1,000	- -	1,000	100KHz/1V
SPN4040100MPCA				10.00	uH	±20%	575.0	690.0	- -	500	- -	750	100KHz/1V
SPN40401R0NESC	4.00	4.00	1.20	1.00	uH	±30%	42.0	55.0	2,300	2,000	3,000	2,800	100KHz/1V
SPN40402R2MESC				2.20	uH	±20%	75.0	100.0	1,900	1,320	2,000	1,760	100KHz/1V
SPN40403R3MESC				3.30	uH	±20%	75.0	100.0	1,900	1,320	1,650	1,350	100KHz/1V
SPN40404R7MESC				4.70	uH	±20%	125.0	163.0	1,400	1,000	1,500	1,150	100KHz/1V
SPN40406R8MESC				6.80	uH	±20%	175.0	228.0	1,100	850	1,300	1,150	100KHz/1V
SPN4040100MESC				10.00	uH	±20%	180.0	234.0	1,000	800	950	850	100KHz/1V
SPN4040150MESC				15.00	uH	±20%	310.0	400.0	800	650	800	680	100KHz/1V
SPN4040220MESC				22.00	uH	±20%	530.0	690.0	750	490	700	500	100KHz/1V
SPN40401R0NESG	4.00	4.00	1.80	1.00	uH	±30%	27.0	33.0	3,720	3,200	4,590	4,000	100KHz/1V
SPN40401R5NESG				1.50	uH	±30%	37.0	48.0	3,000	2,400	3,750	3,300	100KHz/1V
SPN40402R2MESG				2.20	uH	±20%	42.0	51.0	2,590	2,200	3,110	3,000	100KHz/1V
SPN40403R3MESG				3.30	uH	±20%	55.0	66.0	2,240	2,000	2,560	2,300	100KHz/1V
SPN40404R7MESG				4.70	uH	±20%	70.0	84.0	1,880	1,700	2,330	2,000	100KHz/1V
SPN40406R8MESG				6.80	uH	±20%	98.0	118.0	1,690	1,450	1,820	1,600	100KHz/1V
SPN4040100MESG				10.00	uH	±20%	150.0	180.0	1,250	1,200	1,440	1,300	100KHz/1V
SPN4040150MESG				15.00	uH	±20%	210.0	252.0	920	850	1,150	1,100	100KHz/1V
SPN4040220MESG				22.00	uH	±20%	290.0	348.0	810	720	920	900	100KHz/1V
SPN4040R68NESL	4.00	4.00	3.10	0.68	uH	± 30%	10.0	13.0	5,100	4,560	8,000	6,800	100KHz/1V
SPN40401R0NESL				1.00	uH	± 30%	14.0	18.0	4,700	4,150	5,700	5,260	100KHz/1V
SPN40401R5NESL				1.50	uH	± 30%	20.0	26.0	3,600	3,340	5,300	4,840	100KHz/1V
SPN40402R2MESL				2.20	uH	± 20%	30.0	39.0	3,200	2,950	5,800	4,900	100KHz/1V
SPN40403R3MESL				3.30	uH	±20%	40.0	52.0	2,600	2,400	3,600	3,300	100KHz/1V
SPN40404R7MESL				4.70	uH	±20%	60.0	78.0	2,300	2,000	3,200	2,900	100KHz/1V
SPN40406R8MESL				6.80	uH	±20%	90.0	117.0	1,700	1,600	3,000	2,750	100KHz/1V
SPN4040100MESL				10.00	uH	±20%	100.0	130.0	1,600	1,500	2,400	1,950	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN4040150MESL	4.00	4.00	3.00	15.00	uH	±20%	190.0	247.0	1,200	1,110	1,800	1,650	100KHz/1V
SPN4040220MESL				22.00	uH	±20%	225.0	292.0	1,200	1,000	1,400	1,300	100KHz/1V
SPN4040330MESL				33.00	uH	±20%	330.0	429.0	920	840	1,200	1,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPN5050

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN5050R47NPSH	5.00	5.00	2.20	0.47	uH	± 30%	12.0	14.4	5,800	5,000	6,900	6,100	100KHz/1V
SPN50501R0NPSH				1.00	uH	± 30%	21.0	25.2	3,710	3,600	4,500	4,000	100KHz/1V
SPN50501R5NPSH				1.50	uH	± 30%	26.0	31.2	3,540	3,200	3,800	3,350	100KHz/1V
SPN50502R2NPSH				2.20	uH	± 30%	35.0	42.0	3,200	2,900	3,200	2,900	100KHz/1V
SPN50503R3NPSH				3.30	uH	± 30%	48.0	57.6	3,080	2,400	2,700	2,400	100KHz/1V
SPN50504R7MPSH				4.70	uH	± 20%	60.0	72.0	2,370	2,000	2,270	2,000	100KHz/1V
SPN50506R8MPSH				6.80	uH	± 20%	90.0	108.0	2,200	1,650	1,850	1,600	100KHz/1V
SPN5050100MPSH				10.00	uH	± 20%	120.0	144.0	1,850	1,450	1,480	1,300	100KHz/1V
SPN5050150MPSH				15.00	uH	± 20%	165.0	198.0	1,480	1,200	1,260	1,100	100KHz/1V
SPN5050220MPSH				22.00	uH	± 20%	260.0	312.0	1,230	1,000	1,100	900	100KHz/1V
SPN50501R0NESN	5.00	5.00	4.00	1.00	uH	± 30%	12.0	15.6	5,100	4,900	8,200	7,350	100KHz/1V
SPN50501R2NESN				1.20	uH	± 30%	16.0	20.8	4,900	4,150	7,400	6,500	100KHz/1V
SPN50501R5NESN				1.50	uH	± 30%	17.0	22.0	4,800	4,500	7,300	6,400	100KHz/1V
SPN50502R2NESN				2.20	uH	± 30%	19.0	24.7	4,400	3,800	5,700	5,000	100KHz/1V
SPN50503R3NESN				3.30	uH	± 30%	24.0	31.2	3,950	3,400	4,600	4,000	100KHz/1V
SPN50504R7NESN				4.70	uH	± 30%	32.0	41.6	3,300	3,100	3,950	3,500	100KHz/1V
SPN50506R8MESN				6.80	uH	± 20%	43.0	55.9	2,900	2,500	3,500	2,900	100KHz/1V
SPN5050100MESN				10.00	uH	± 20%	56.0	73.0	2,550	2,100	3,000	2,300	100KHz/1V
SPN5050150MESN				15.00	uH	± 20%	80.0	104.0	2,200	2,000	2,300	2,000	100KHz/1V
SPN5050220MESN				22.00	uH	± 20%	126.0	164.0	1,600	1,500	1,900	1,600	100KHz/1V
SPN5050101MESN				100.00	uH	± 20%	560.0	728.0	770	700	820	750	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

● SPN6060

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN60606R8NPSC	6.00	6.00	1.30	6.80	uH	± 30%	290.0	320.0	- -	- -	- -	1,600	100KHz, 1V
SPN6060100MPSC	6.00	6.00	1.30	10.00	uH	± 20%	335.0	402.0	- -	770	- -	1,450	100KHz, 1V
SPN60600R8NESH	6.00	6.00	2.00	0.80	uH	± 30%	20.0	24.0	4,350	3,900	5,650	4,600	100KHz/1V
SPN60601R5NESH				1.50	uH	± 30%	26.0	31.2	4,200	3,600	5,300	4,300	100KHz/1V
SPN60602R2NESH				2.20	uH	± 30%	34.0	40.8	3,400	2,900	4,500	3,750	100KHz/1V
SPN60603R3NESH				3.30	uH	± 30%	40.0	48.0	3,100	2,750	3,700	3,150	100KHz/1V
SPN60604R7MESH				4.70	uH	± 20%	58.0	69.6	2,500	2,150	3,600	3,000	100KHz/1V
SPN60606R8MESH				6.80	uH	± 20%	85.0	102.0	2,100	1,800	2,600	2,000	100KHz/1V
SPN6060100MESH				10.00	uH	± 20%	125.0	150.0	1,700	1,400	2,240	1,700	100KHz/1V
SPN6060150MESH				15.00	uH	± 20%	145.0	189.0	1,500	1,200	1,400	1,200	100KHz/1V
SPN6060220MESH				22.00	uH	± 20%	200.0	265.0	1,300	1,000	1,200	1,050	100KHz/1V
SPN60602R2NESK	6.00	6.00	2.80	2.20	uH	± 30%	20.0	26.0	- -	3,700	- -	4,200	100KHz/1V
SPN60603R3MESK				3.30	uH	± 20%	23.0	29.9	- -	3,400	- -	3,600	100KHz/1V

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DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN60604R7MESK	6.00	6.00	2.80	4.70	uH	± 20%	31.0	40.3	- -	3,000	- -	2,700	100KHz/1V
SPN60606R0MESK				6.00	uH	± 20%	40.0	52.0	- -	2,500	- -	2,500	100KHz/1V
SPN6060100MESK				10.00	uH	± 20%	67.0	84.5	- -	1,900	- -	1,900	100KHz/1V
SPN6060150MESK				15.00	uH	± 20%	95.0	114.0	- -	1,800	- -	1,600	100KHz/1V
SPN6060220MESK				22.00	uH	± 20%	135.0	175.5	- -	1,400	- -	1,300	100KHz/1V
SPN6060330MESK				33.00	uH	± 20%	220.0	250.0	- -	1,100	- -	1,200	100KHz/1V
SPN6060101MESK				100.00	uH	± 20%	600.0	780.0	- -	660	- -	620	100KHz/1V
SPN6060221MESK				220.00	uH	± 20%	1500.0	1600.0	- -	200	- -	200	100KHz/1V
SPN60601R0NESP	6.00	6.00	4.50	1.00	uH	± 30%	14.0	18.2	5,200	4,500	11,000	9,800	100KHz/1V
SPN60601R5NESP				1.50	uH	± 30%	12.0	15.6	5,300	4,950	9,200	8,800	100KHz/1V
SPN60602R2NESP				2.20	uH	± 30%	22.0	28.6	4,100	3,600	7,300	6,400	100KHz/1V
SPN60603R3NESP				3.30	uH	± 30%	24.0	31.2	4,000	3,300	6,500	5,600	100KHz/1V
SPN60604R7MESP				4.70	uH	± 20%	30.0	39.0	3,600	3,100	5,400	4,400	100KHz/1V
SPN60606R8MESP				6.80	uH	± 20%	36.0	46.8	3,300	3,000	4,300	3,600	100KHz/1V
SPN6060100MESP				10.00	uH	± 20%	46.0	59.8	2,800	2,400	3,600	3,100	100KHz/1V
SPN6060150MESP				15.00	uH	± 20%	70.0	91.0	2,300	1,900	3,000	2,500	100KHz/1V
SPN6060220MESP				22.00	uH	± 20%	107.0	139.1	1,900	1,600	2,400	2,000	100KHz/1V
SPN6060330MESP				33.00	uH	± 20%	160.0	188.5	1,750	1,500	2,300	2,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

- SPN8080

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current DC Amps. Idc(mA)		Saturation Current DC Amps. Isat(mA)		Measuring Condition
	Length	Width	Max.	Value	Unit		Typ.	Max.	Typ.	Max.	Typ.	Max.	
SPN80801R0NESN	8.00	8.00	4.00	1.00	uH	± 30%	6.0	7.8	9,600	7,800	14,000	13,000	100KHz/1V
SPN80802R0NESN				2.00	uH	± 30%	9.0	11.7	7,600	6,300	9,200	8,100	100KHz/1V
SPN80802R2NESN				2.20	uH	± 30%	9.0	11.7	7,600	6,300	9,200	8,100	100KHz/1V
SPN80803R3NESN				3.30	uH	± 30%	15.0	19.5	6,000	4,900	6,800	6,400	100KHz/1V
SPN80803R6NESN				3.60	uH	± 30%	15.0	19.5	6,000	4,900	6,800	6,400	100KHz/1V
SPN80804R7NESN				4.70	uH	± 30%	18.0	23.4	5,200	4,100	5,900	5,400	100KHz/1V
SPN80806R8NESN				6.80	uH	± 30%	25.0	32.5	4,400	3,700	4,800	4,400	100KHz/1V
SPN80808R2MESN				8.20	uH	± 20%	26.0	34.0	3,700	3,450	4,400	4,200	100KHz/1V
SPN8080100MESN				10.00	uH	± 20%	34.0	44.2	3,500	3,100	4,100	3,800	100KHz/1V
SPN8080150MESN				15.00	uH	± 20%	50.0	65.0	3,000	2,400	3,200	2,900	100KHz/1V
SPN8080220MESN				22.00	uH	± 20%	66.0	85.8	2,600	2,200	2,700	2,400	100KHz/1V
SPN8080330MESN				33.00	uH	± 20%	100.0	130.0	1,900	1,700	2,300	2,000	100KHz/1V
SPN8080470MESN				47.00	uH	± 20%	140.0	182.0	1,600	1,500	1,800	1,500	100KHz/1V
SPN8080680MESN				68.00	uH	± 20%	196.0	255.0	1,450	1,250	1,550	1,450	100KHz/1V
SPN8080101MESN				100.00	uH	± 20%	280.0	364.0	1,100	1,000	1,300	1,100	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -40 to +125℃

Automotive Type Inductor for Coating Inductor
(SAS Series)

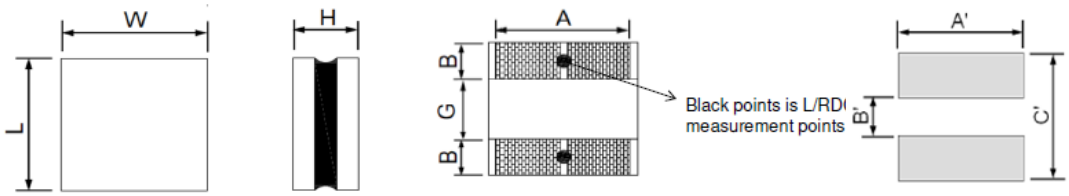
■ Feature

4. Small and low profile inductor
5. It corresponds to high current
6. Simple and original magnetic shield structure

■ Application

For small DC/DC converter (HDD, DVC, DSC, LCD display, notebook, tablet, Bluetooth earphone, cellular phones)

■ External Dimension



Series	L (mm)	W (mm)	H (mm)	B	G	A	Recommended Land Patterns			Package	
							A' (mm)	B' (mm)	C' (mm)	Reel	Amount (pcs)
SAS4040□□□□EFH	4.0±0.2	4.0±0.2	1.8±0.2	1.1 Ref	1.8 Ref	3.7 Ref	4.0	1.6	4.0	7"	2,000

■ Part Number & Characteristic (General Coating for Automotive)(SAS Series)

● SAS4040

DARFONP/N	Size		Thickness (mm)	Inductance		Inductance Tolerance %	DC Resistance Rdc (mΩ)	Heat Rating Current Idc(mA)	Saturation Current Isat(mA)	Measuring Condition
	Length	Width	Max.	Value	Unit		Max.	Typ.	Typ.	
SAS4040220MEFH	4.00	4.00	2.00	22.0	uH	± 30%	7.8	9,600	14,000	100KHz/1V
SAS4040330MEFH				33.0	uH	± 30%	11.7	7,600	9,200	100KHz/1V
SAS4040470MEFH				47.0	uH	± 30%	11.7	7,600	9,200	100KHz/1V

※Saturation current (Isat)：the maximum DC current will cause inductance drop approximately 30% from initial value.

※Heat rating current (Idc)：the maximum DC current will cause temperature rising approximately 40℃.

※Operating temperature -55 to +150℃

TLVR (Trans-Inductor Voltage Regulator) Power Inductor

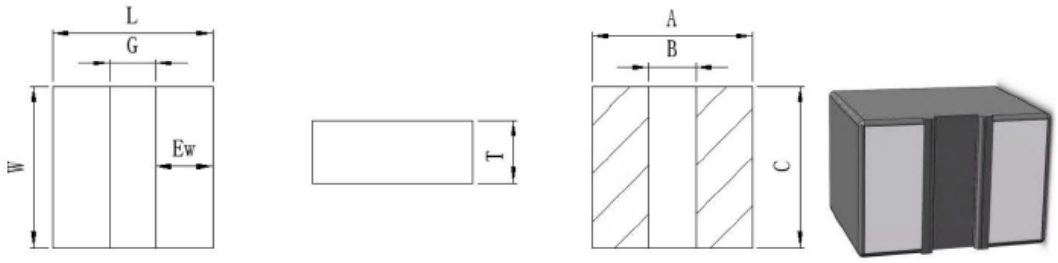
■ Feature

1. Fast transient response
2. Reduce output capacitance
3. Dual winding structure

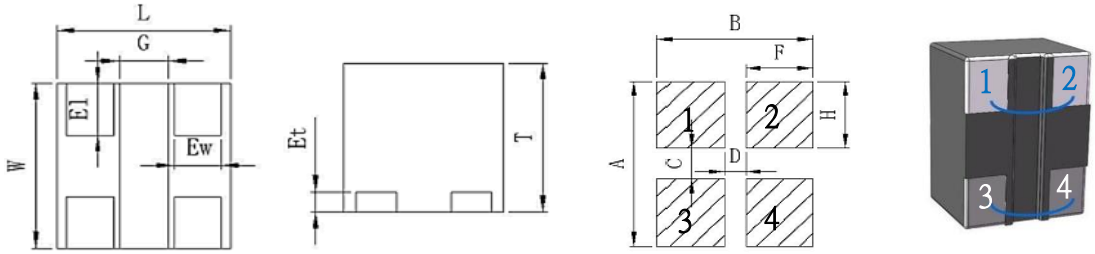
■ Application

Primarily used in applications requiring extremely high power and fast dynamic response, such as AI servers, data centers, electric vehicles, and power supplies for FPGAs and ASICs.

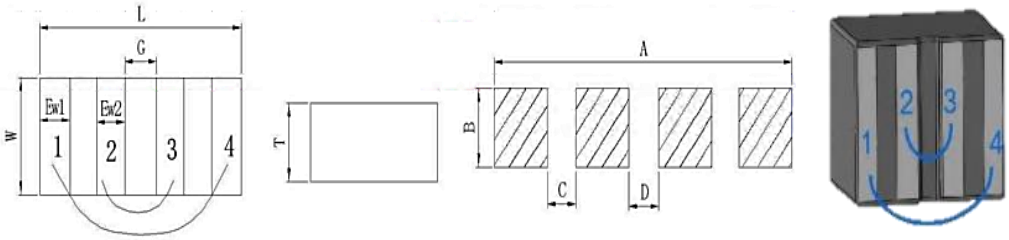
■ External Dimension



Series (unit：mm)	L	G	W	Ew	T	Recommended Land Pattern (unit：mm)		
						A	B	C
SCT4940□□□MELR	4.7 ± 0.2	1.8 ± 0.2	4.0 Max.	1.5 ± 0.2	5.8 ± 0.2	5.1	1.6	4.2
SCT7050□□□MELN	6.9 ± 0.2	2.4 ± 0.2	5.0 Max.	2.2 ± 0.2	4.0 Max	7.1	2.1	5.1
SCT1046□□□MELQ	10 Max.	7.0 ± 0.3	4.6 Max.	1.4 ± 0.2	5.0 Max	10.4	6.5	4.8

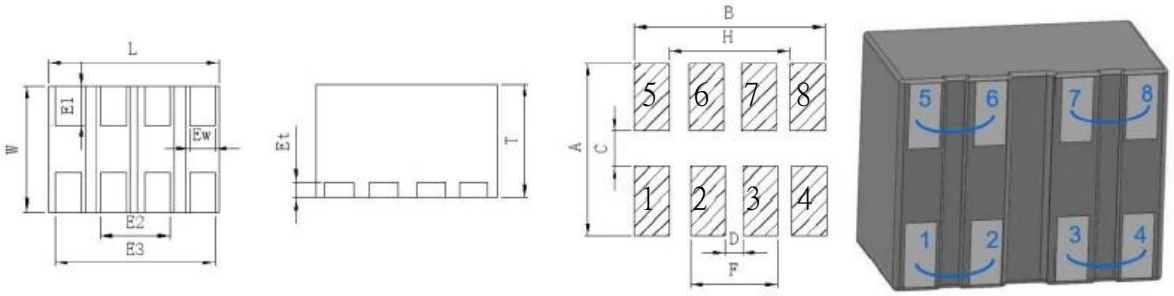


Series (unit：mm)	L	G	W	EW	El	Et	T	Recommended Land Pattern (unit：mm)					
								A	B	C	D	E	F
SCT4980□□□MELR	4.7 ± 0.2	1.7 ± 0.2	8.0 Max.	1.5 ± 0.2	2.65 ± 0.2	1.0 Max	5.8 ± 0.2	8.2	5.0	2.5	1.5	1.95	2.85



Series (unit：mm)	L	G	W	Ew1	Ew2	T	Recommended Land Pattern (unit：mm)			
							A	B	C	D
SCT6050□□□MELQ	5.8 ± 0.2	0.7 ± 0.2	5.0 Max.	0.8 ± 0.2	0.8 ± 0.2	4.8 ± 0.2	6.1	5.1	0.75	0.5
SCT7548□□□MELR	7.3 ± 0.2	1.05 ± 0.15	4.8 Max.	1.0 ± 0.2	1.0 ± 0.2	6.0 Max.	7.7	5.0	1.0	1.0
SCT1260□□□MEL1	11.8 ± 0.2	1.55 ± 0.2	6.0 Max.	1.8 ± 0.2	1.24 ± 0.2	11.0 Max.	12.2	6.2	1.9	1.35

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Series (unit：mm)	L	W	E1	E2	E3	Ew	Et	T
SCT1008□□□MELR	9.8 ± 0.2	8.0 Max.	2.65 ± 0.2	3.7 ± 0.2	9.5 ± 0.2	1.2 ± 0.2	1.0 Max	5.8 ± 0.2

Series (unit：mm)	Recommended Land Pattern (unit：mm)					
	A	B	C	D	F	H
SCT1008□□□MELR	8.2	10.2	2.1	0.9	4.1	6.7

■ Part Numbers & Characteristic

● SCT4940 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT494055NMELR	4.9	4.0	6.0	0.055	uH	±20%	0.25	0.30	65	55	90	80	Black
SCT494070NMELR				0.070	uH	±20%	0.22	0.25	45	40	75	70	Gray
SCT494085NMELR				0.085	uH	±20%	0.27	0.30	45	40	60	56	Black
SCT494090NMELR				0.090	uH	±20%	0.27	0.30	40	35	55	50	Gray

● SCT4980 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT498080NMELR	4.9	8.0	6.0	0.080	uH	±20%	0.27	0.30	25	20	70	60	Gray

● SCT6050 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)1、4		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT605075NMELQ	6.0	5.0	5.0	0.075	uH	±20%	0.25	0.30	25	20	55	50	Black
							DC Resistance Rdc (mΩ)2、3						
							Typ.	Max					
							0.58	0.65					

● SCT7050 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT705090NMELN	7.0	5.0	4.0	0.090	uH	±20%	0.45	0.50	50	45	55	50	Gray

● SCT7548 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)1、4		Heat Rating Current Idc (A)1、4		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT754885NMELR	7.5	4.8	6.0	0.085	uH	±20%	0.13	0.16	65	60	100	90	Gray
							DC Resistance Rdc (mΩ)2、3		Heat Rating Current Idc (A)2、3				
							Typ.	Max	Typ.	Max			
							0.55	0.6	35	30			

● SCT1008 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT100885NMELR	10.0	8.0	6.0	0.085	uH	±20%	0.27	0.30	25	20	70	65	Black

● SCT1046 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT1046R10MELQ	10.0	4.6	5.0	0.1	uH	±20%	0.5	0.6	50	40	95	85	Black

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- SCT1260 series

DARFONP/N	Size		Thickness (mm)	Inductance		Tolerance %	DC Resistance Rdc (mΩ)1、4		Heat Rating Current Idc (A)		Saturation Current Isat (A)		Marking
	Length	Width	Max	Value	Unit		Typ.	Max	Typ.	Max	Typ.	Max	
SCT1260R12MEL1	12.0	6.0	11.0	0.12	uH	±20%	0.12	0.135	45	40	120	110	Black
							DC Resistance Rdc (mΩ)2、3						
							Typ.	Max					
							0.35	0.4					

※OPERATING TEMPERATURERANGE:-55℃TO+125℃ (Including self - temperature rise)