CONTENT (EMI SUPPRESSION COMPONENTS)

ORDERING CODE **2**

PRODUCT RANGE **3**

WIRE WOUND CHIP INDUCTORS **3**

● Ordering Code

SIW 2012 100 K P M C

PRODUCT CODE

SIW：Wire Wound Chip Inductors

DIMENSION (L X W)

Code	Dimension	EIA
2012	2.05 X 1.25 mm	0805

IMPEDANCE CODE

Code	100	101	102
Impedance (Ω)	10	100	1000

TOLERANCE CODE

K：±10%

PACKAGING CODE

P：Embossed Tape(7')

TYPE CODE

M：Metal Standard

THICKNESS CODE(mm)

C：1.2

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Product Range

■ Wire Wound Chip Inductors

● Meatal

TCC	Series	Size (mm)	Thickness Max.(mm)	Inductance Range										
				0.1uH			1uH			10uH		100uH		
Wire Wound Chip Inductors	2012	2.0*1.2	1.2								10 uH	100 uH		

Wire Wound Chip Inductors

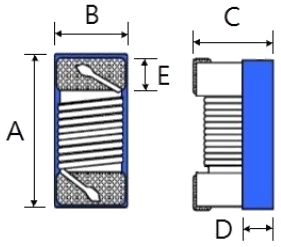
■ Feature.

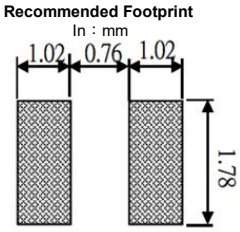
1. High Q factor.
2. Low DC resistance.
3. High current-carrying capacity.
4. Excellent temperature stability.
5. Excellent frequency characteristics.

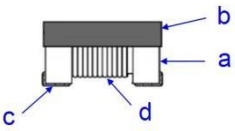
■ Application

1. DC-DC converters and power management circuits.
2. EMI and noise suppression circuits.
3. Signal filtering circuits / Impedance matching circuits.

■ External Dimension







No.	Description	Specification
a.	Core	Ferrite Core
b.	Back Film	UV Resin
c.	Termination	Tin Pb Free
d.	Wire	Enameled Copper Wire



Series	A (mm)	B (mm)	C (mm)	D	E (Typ.)
SIW2012□□□□PMC	2.4 Max.	1.65 Max.	1.2 ± 0.1	0.65 Ref.	0.44 ± 0.1

■ Part Numbers & Characteristic

● SIW2012 series(EIA 0805 Size)

DARFON P/N	Inductance at 1 MHz		Tolerance %	DC Resistance (Ω)Typ.	Q / MHz (Typ.)	IDC (mA)	Irms (mA)	Self-Resonant Frequency (MHz)Typ.	Color Coding	Frequency (MHz)
	Value	Unit								
SIW2012100KPMC	10	uH	± 10%	1.3	25/1.0	800 Typ.	820 Typ.	450	NA	1.0 MHz /0.5 V
SIW2012220KPMC	22	uH	± 10%	2.5	25/1.0	600 Typ.	620 Typ.	360	NA	1.0 MHz /0.5 V
SIW2012330KPMC	33	uH	± 10%	4.5	25/1.0	480 Typ.	500 Typ.	250	NA	1.0 MHz /0.5 V
SIW2012470KPMC	47	uH	± 10%	5.0	20/1.0	440 Typ.	450 Typ.	130	NA	1.0 MHz /0.5 V
SIW2012560KPMC	56	uH	± 10%	6.5	20/1.0	390 Typ.	400 Typ.	75	NA	1.0 MHz /0.5 V
SIW2012680KPMC	68	uH	± 10%	8.0	20/1.0	320 Typ.	330 Typ.	40	NA	1.0 MHz /0.5 V
SIW2012820KPMC	82	uH	± 10%	9.0	20/1.0	300 Typ.	310 Typ.	20	NA	1.0 MHz /0.5 V
SIW2012101KPMC	100	uH	± 10%	9.5	10/1.0	250 Typ.	260 Typ.	9	NA	1.0 MHz /0.5 V

※OPERATING TEMPERATURE RANGE: -50℃ TO +150 ℃

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