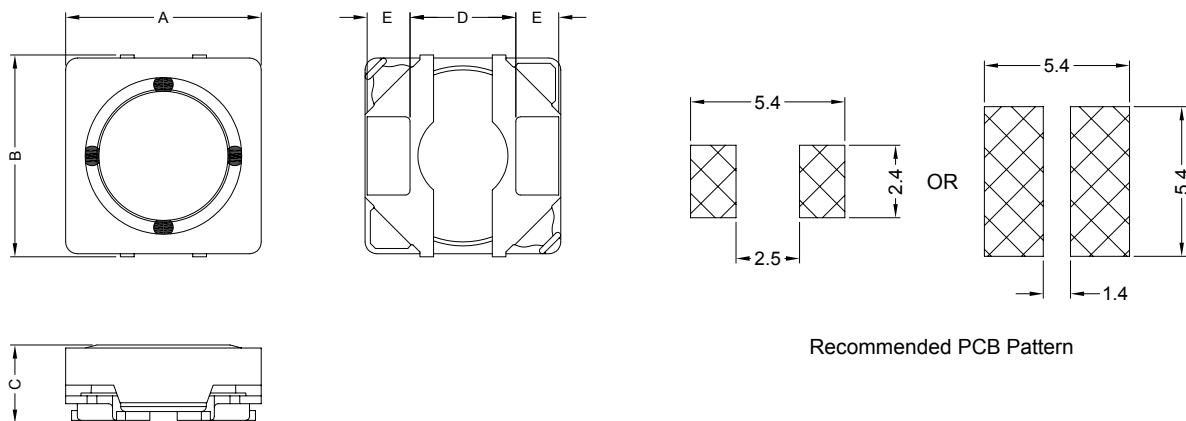


1. PART NO. EXPRESSION :

S P I 5 0 1 2 - 1 R 0 N Z F
 (a) (b) (c) (d)(e)(f)

- (a) Series code
- (b) Dimension code
- (c) Inductance code : 1R0 = 1.0uH
- (d) Tolerance code : M = ±20%, N = ±30%
- (e) Z : Standard part
- (f) F : RoHS Compliant

2. CONFIGURATION & DIMENSIONS :



Recommended PCB Pattern

Unit:m/m

A	B	C	D	E	F	G
5.0±0.2	5.0±0.3	1.2 Max.	2.7 Typ	1.1 Typ	2.0 Typ	1.5 Typ

3. MATERIALS :

- (a) Core : Ferrite
- (b) Wire : Polyurethane Enamelled Copper Wire
- (c) Terminal Clip : C5191
- (d) Adhesive : Epoxy
- (e) Ink : 70000-00101



RoHS Compliant

NOTE : Specifications subject to change without notice. Please check our website for latest information.

18.06.2009

4. GENERAL SPECIFICATION :

- a) IDC1 : Based on inductance change ($\Delta L/L_0: \leq 30\%$) @ ambient temp. 25°C
- b) IDC2 : Based on temperature rise ($\Delta T: 40^\circ\text{C Typ.}$)
- c) Storage temp. : -40°C to +105°C
- d) Operating temp. : -40°C to +105°C
- e) Resistance to solder heat : 260°C 10secs

5. ELECTRICAL CHARACTERISTICS :

Part No.	Inductance (μH)	Test Frequency (Hz)	RDC ($\text{m}\Omega$) $\pm 20\%$	IDC1 (A)	IDC2 (A)
SPI5012-1R0NZF	1.2 $\pm 30\%$	0.1V/100K	45	2.50	2.30
SPI5012-1R5NZF	1.5 $\pm 30\%$	0.1V/100K	52	2.10	2.00
SPI5012-2R2NZF	2.2 $\pm 30\%$	0.1V/100K	71	1.70	1.70
SPI5012-3R3NZF	3.3 $\pm 30\%$	0.1V/100K	80	1.40	1.50
SPI5012-4R7MZF	4.7 $\pm 20\%$	0.1V/100K	120	1.30	1.30
SPI5012-6R8MZF	6.8 $\pm 20\%$	0.1V/100K	150	1.00	1.10
SPI5012-100MZF	10 $\pm 20\%$	0.1V/100K	220	0.75	1.00
SPI5012-150MZF	15 $\pm 20\%$	0.1V/100K	320	0.65	0.85
SPI5012-220MZF	22 $\pm 20\%$	0.1V/100K	430	0.53	0.70
SPI5012-330MZF	33 $\pm 20\%$	0.1V/100K	680	0.42	0.50
SPI5012-470MZF	47 $\pm 20\%$	0.1V/100K	1050	0.30	0.38



RoHS Compliant

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