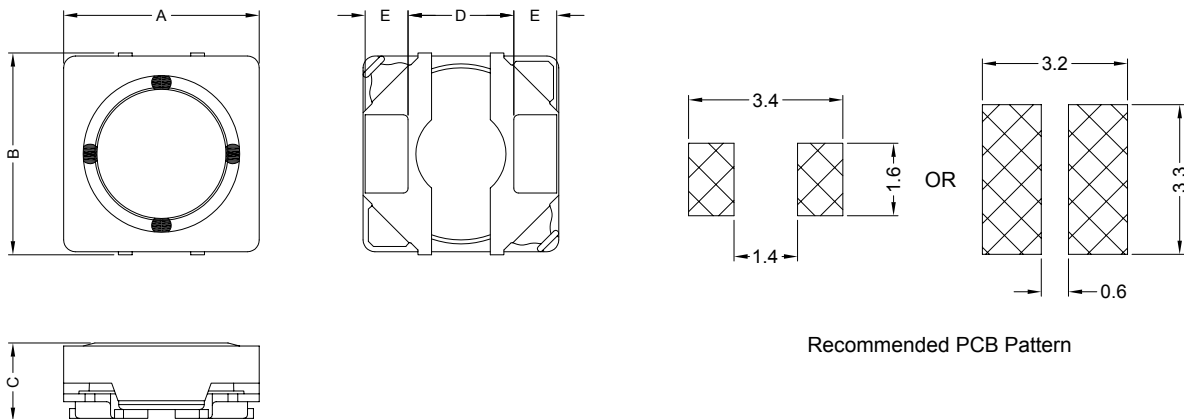


1. PART NO. EXPRESSION :

S P I 3 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 :



Unit:m/m

A	B	C	D	E	F	G
3.0±0.2	3.0±0.3	1.2 Max.	1.5 Typ	0.7 Typ	1.2 Typ	0.7 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.

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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)
SPI3012-1R0NZF	1.0 $\pm 30\%$	0.1V/100K	55	1.50	1.80
SPI3012-1R2NZF	1.2 $\pm 30\%$	0.1V/100K	63	1.40	1.65
SPI3012-1R5NZF	1.5 $\pm 30\%$	0.1V/100K	75	1.30	1.50
SPI3012-2R2NZF	2.2 $\pm 30\%$	0.1V/100K	110	1.00	1.30
SPI3012-3R3NZF	3.3 $\pm 30\%$	0.1V/100K	150	0.87	1.10
SPI3012-3R9NZF	3.9 $\pm 30\%$	0.1V/100K	180	0.82	1.00
SPI3012-4R7MZF	4.7 $\pm 20\%$	0.1V/100K	210	0.75	0.90
SPI3012-5R6MZF	5.6 $\pm 20\%$	0.1V/100K	270	0.65	0.80
SPI3012-6R8MZF	6.8 $\pm 20\%$	0.1V/100K	330	0.60	0.70
SPI3012-8R2MZF	8.2 $\pm 30\%$	0.1V/100K	380	0.55	0.65
SPI3012-100MZF	10 $\pm 20\%$	0.1V/100K	410	0.50	0.60
SPI3012-120MZF	12 $\pm 20\%$	0.1V/100K	550	0.45	0.55
SPI3012-150MZF	15 $\pm 20\%$	0.1V/100K	680	0.40	0.45
SPI3012-220MZF	22 $\pm 20\%$	0.1V/100K	950	0.35	0.35



RoHS Compliant

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