



深圳市富尔电子科技有限公司

ADD: 广东省深圳市南山区后海工业七路8号

Http://www.frcoil.com

Tel/Fax: 0755-21606613/21606608

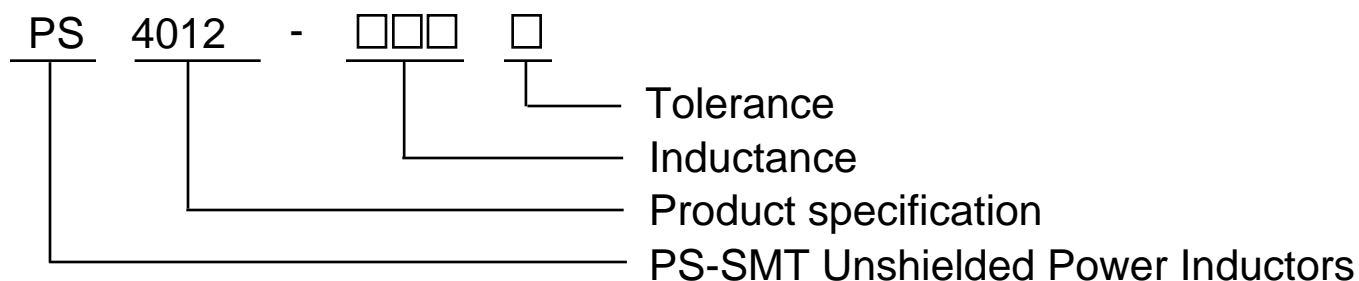
Email: xy@frcoil.com



Shielded Power Inductors-PS4012

产品型号

PRODUCT IDENTIFICATION



Tolerance:

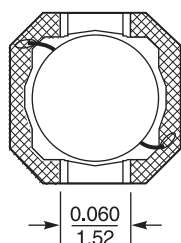
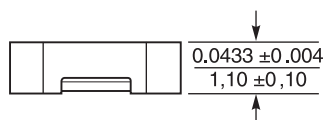
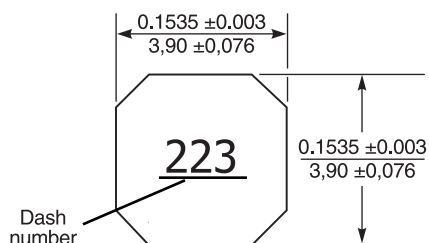
Code	Tolerance
102	1.0uH
103	10.0uH
104	100.0uH
105	1000.0uH
106	10000.0uH

Inductance:

Code	Tolerance
J	± 5%
K	± 10%
L	± 15%
M	± 20%
N	± 30%

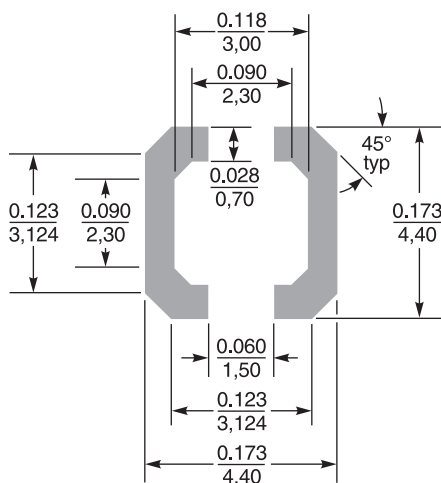
外观尺寸

SHAPE AND DIMENSIONS



Dimensions are in inches
mm

Recommended Land Pattern





深圳市富尔电子科技有限公司

ADD: 广东省深圳市南山区后海工业七路8号

Http://www.frcoil.com

Tel/Fax: 0755-21606613/21606608

Email: xy@frcoil.com



Shielded Power Inductors-PS4012

规格特性

SPECIFICATIONS

Part number	Inductance ¹ (μH)	DCR max ² (Ohms)	SRF typ ³ (MHz)	Isat (A) ⁴			Irms (A) ⁵	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
PS4012-331M	0.33±20%	0.025	375	5.2	5.4	5.5	2.2	3.0
PS4012-681M	0.68±20%	0.055	220	3.5	3.6	3.7	1.8	2.4
PS4012-102N	1.0±30%	0.060	180	2.8	2.9	3.0	1.7	2.4
PS4012-152M	1.5±20%	0.070	140	2.6	2.7	2.8	1.6	2.2
PS4012-222M	2.2±20%	0.100	115	2.3	2.4	2.5	1.2	1.75
PS4012-332M	3.3±20%	0.100	100	1.3	1.4	1.4	1.45	2.00
PS4012-472M	4.7±20%	0.175	70	1.6	1.7	1.8	1.10	1.45
PS4012-562M	5.6±20%	0.260	60	1.5	1.6	1.6	0.85	1.10
PS4012-682M	6.8±20%	0.340	55	1.3	1.3	1.4	0.80	0.98
PS4012-103M	10±20%	0.350	40	0.98	1.0	1.1	0.55	0.75
PS4012-153M	15±20%	0.550	30	0.79	0.82	0.84	0.53	0.73
PS4012-223M	22±20%	0.600	25	0.74	0.78	0.79	0.52	0.70
PS4012-333M	33±20%	0.825	22	0.45	0.47	0.48	0.46	0.61
PS4012-473M	47±20%	1.40	19	0.35	0.37	0.38	0.40	0.52
PS4012-683M	68±20%	1.70	15	0.30	0.32	0.33	0.35	0.46
PS4012-104M	100±20%	2.40	12	0.24	0.26	0.27	0.30	0.40
PS4012-124M	120±20%	3.30	11.5	0.23	0.24	0.25	0.27	0.36
PS4012-154M	150±20%	3.50	10.0	0.21	0.22	0.23	0.25	0.32
PS4012-184M	180±20%	5.00	8.0	0.18	0.19	0.20	0.23	0.29
PS4012-224M	220±20%	5.20	7.0	0.15	0.16	0.17	0.21	0.27
PS4012-334M	330±20%	7.20	7.0	0.14	0.14	0.15	0.17	0.225
PS4012-474M	470±20%	10.0	4.0	0.10	0.11	0.12	0.13	0.175
PS4012-564M	560±20%	12.5	3.5	0.10	0.105	0.115	0.11	0.140
PS4012-684M	680±20%	13.5	3.0	0.10	0.105	0.110	0.11	0.135
PS4012-824M	820±20%	20.0	3.0	0.090	0.095	0.095	0.105	0.132
PS4012-105M	1000±20%	21.5	3.0	0.080	0.090	0.095	0.100	0.130
PS4012-155M	1500±20%	30.0	2.5	0.080	0.090	0.090	0.087	0.115
PS4012-185M	1800±20%	35.0	2.0	0.079	0.085	0.087	0.075	0.100
PS4012-225M	2200±20%	42.0	1.0	0.079	0.083	0.085	0.070	0.090
PS4012-335M	3300±20%	65.0	0.95	0.074	0.078	0.080	0.050	0.065

- Very low DCR; excellent current handling
- 4.0 × 4.0 mm footprint; less than 1.2 mm tall

1. Inductance tested at 100 kHz, 0.1 Vrms using an Agilent/HP 4192A. Inductance at 1 MHz is the same for parts with SRF ≥ 10 MHz.
2. DCR measured on a micro-ohmmeter.
3. SRF measured using Agilent/HP 8753ES or equivalent.
4. DC current that causes the specified inductance drop from its value without current.
5. Current that causes the specified temperature rise from 25°C ambient.
6. Electrical specifications at 25°C.

Core material Ferrite

Terminations RoHS compliant silver-palladium-platinum-glass frit. Other terminations available at additional cost.

Weight 54 – 64 mg

Ambient temperature -40°C to +85°C with Irms current, +85°C to +125°C with derated current

Storage temperature Component: -40°C to +125°C.

Tape and reel packaging: -40°C to +80°C

Resistance to soldering heat Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

Moisture Sensitivity Level (MSL) 1 (unlimited floor life at <30°C / 85% relative humidity)

Failures in Time (FIT) / Mean Time Between Failures (MTBF)

38 per billion hours / 26,315,789 hours, calculated per Telcordia SR-332



深圳市富尔电子科技有限公司

ADD: 广东省深圳市南山区后海工业七路8号

Http://www.frcoil.com

Tel/Fax: 0755-21606613/21606608

Email: xy@frcoil.com

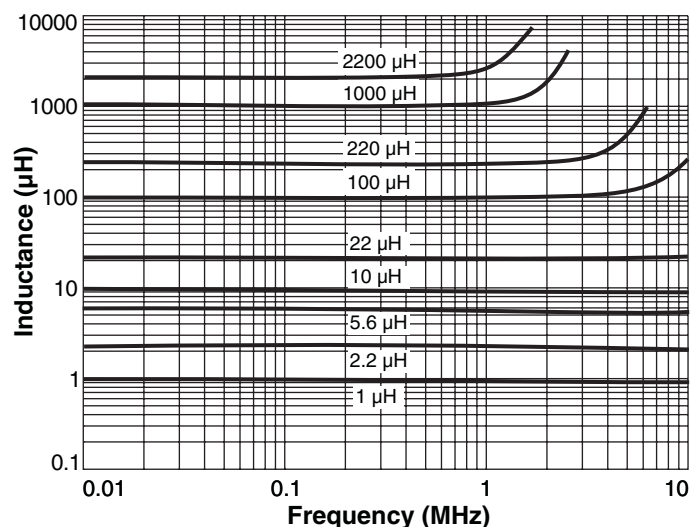


Shielded Power Inductors-PS4012

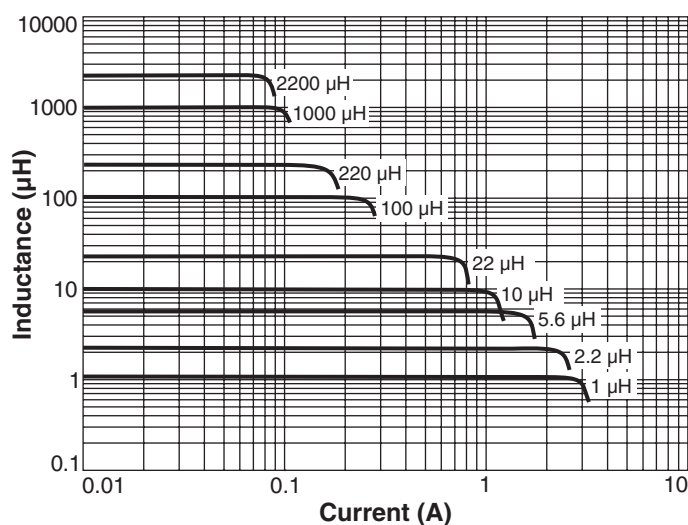
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Typical L vs Frequency



Typical L vs Current



Current Derating

