



# 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

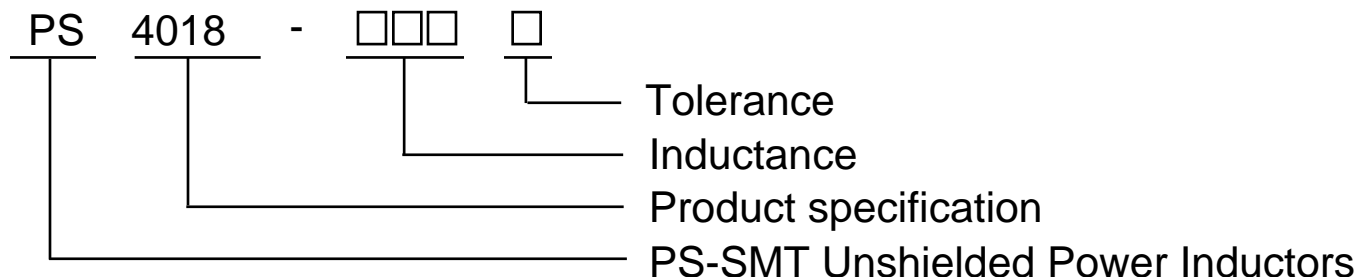
Email: xy@frcoil.com



## Shielded Power Inductors-PS4018

### 产品型号

### PRODUCT IDENTIFICATION



#### Tolerance:

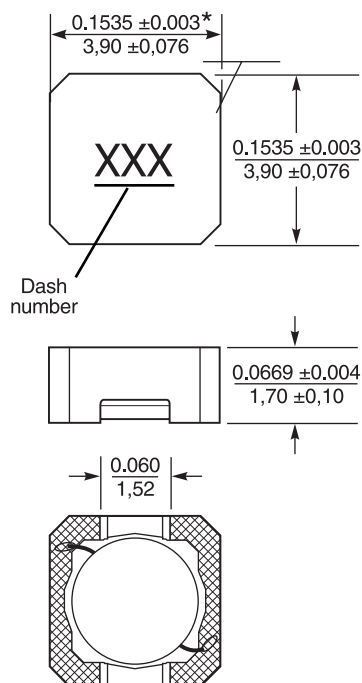
Code	Tolerance
102	1.0uH
103	10.0uH
104	100.0uH
105	1000.0uH
106	10000.0uH

#### Inductance:

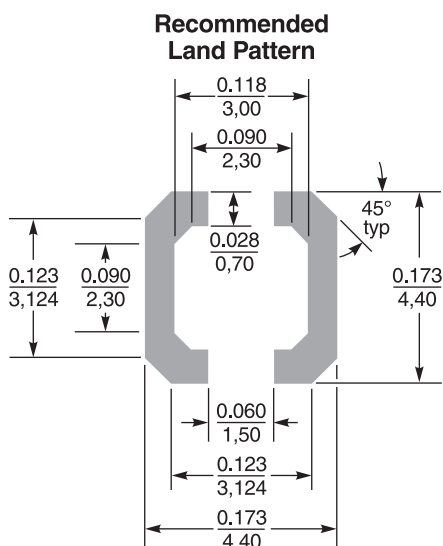
Code	Tolerance
J	± 5%
K	± 10%
L	± 15%
M	± 20%
N	± 30%

### 外观尺寸

### SHAPE AND DIMENSIONS



Dimensions are in  $\frac{\text{inches}}{\text{mm}}$





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## Shielded Power Inductors-PS4018

### 规格特性

### SPECIFICATIONS

Part number	Inductance <sup>1</sup> (μH)	DCR max <sup>2</sup> (Ohms)	SRF typ <sup>3</sup> (MHz)	Isat (A) <sup>4</sup>			Irms (A) <sup>5</sup>	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
PS4018-561M	0.56 ±20%	0.033	250	4.8	5.2	5.3	1.9	2.8
PS4018-102N	1.0 ±30%	0.042	180	3.8	3.9	4.0	1.8	2.5
PS4018-222M	2.2 ±20%	0.070	90	2.7	2.8	2.9	1.5	2.0
PS4018-332M	3.3 ±20%	0.080	75	1.9	2.0	2.0	1.4	1.9
PS4018-472M	4.7 ±20%	0.125	65	1.8	1.9	1.9	1.3	1.8
PS4018-682M	6.8 ±20%	0.150	50	1.2	1.3	1.3	1.0	1.5
PS4018-103M	10 ±20%	0.200	40	1.1	1.2	1.3	0.90	1.25
PS4018-153M	15 ±20%	0.260	32	0.86	0.91	0.94	0.80	1.12
PS4018-183M	18 ±20%	0.270	27	0.78	0.83	0.85	0.70	1.00
PS4018-223M	22 ±20%	0.360	26	0.74	0.80	0.83	0.65	0.90
PS4018-333M	33 ±20%	0.420	20	0.58	0.64	0.68	0.55	0.80
PS4018-473M	47 ±20%	0.650	16	0.51	0.55	0.56	0.45	0.68
PS4018-683M	68 ±20%	0.950	13	0.41	0.45	0.46	0.40	0.56
PS4018-104M	100 ±20%	1.40	10	0.34	0.36	0.37	0.35	0.50
PS4018-124M	120 ±20%	1.60	9.0	0.31	0.33	0.34	0.30	0.45
PS4018-154M	150 ±20%	2.00	8.0	0.27	0.29	0.30	0.28	0.40
PS4018-184M	180 ±20%	2.50	7.5	0.24	0.26	0.27	0.26	0.36
PS4018-224M	220 ±20%	3.70	6.5	0.21	0.225	0.235	0.20	0.30
PS4018-334M	330 ±20%	5.90	5.5	0.18	0.19	0.20	0.17	0.23
PS4018-474M	470 ±20%	7.80	4.5	0.14	0.16	0.17	0.15	0.20
PS4018-564M	560 ±20%	10.0	4.0	0.13	0.14	0.15	0.14	0.18
PS4018-684M	680 ±20%	11.5	3.5	0.12	0.13	0.14	0.12	0.16
PS4018-824M	820 ±20%	14.0	2.9	0.11	0.12	0.13	0.10	0.14
PS4018-105M	1000 ±20%	18.0	2.8	0.10	0.11	0.11	0.098	0.125
PS4018-155M	1500 ±20%	25.0	2.4	0.095	0.10	0.105	0.080	0.110
PS4018-185M	1800 ±20%	31.5	2.3	0.090	0.095	0.100	0.070	0.095
PS4018-225M	2200 ±20%	32.5	2.1	0.088	0.094	0.100	0.070	0.090
PS4018-335M	3300 ±20%	48.0	1.6	0.082	0.092	0.094	0.055	0.075

- Very low DCR; excellent current handling
- 4.0 × 4.0 mm footprint; less than 1.8 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 – 100 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. 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



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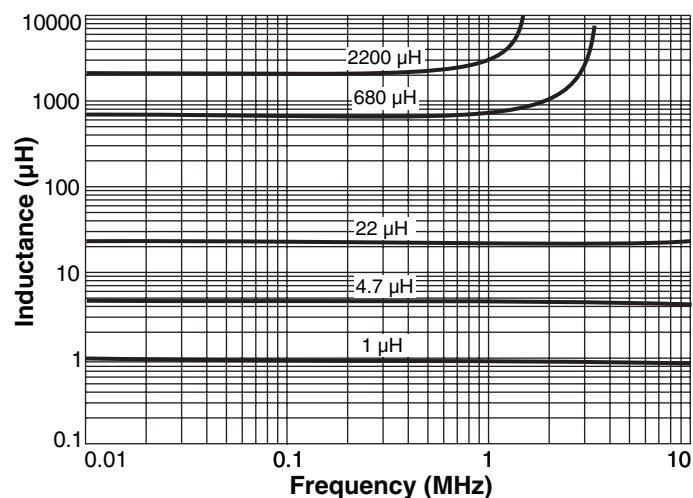


# Shielded Power Inductors-PS4018

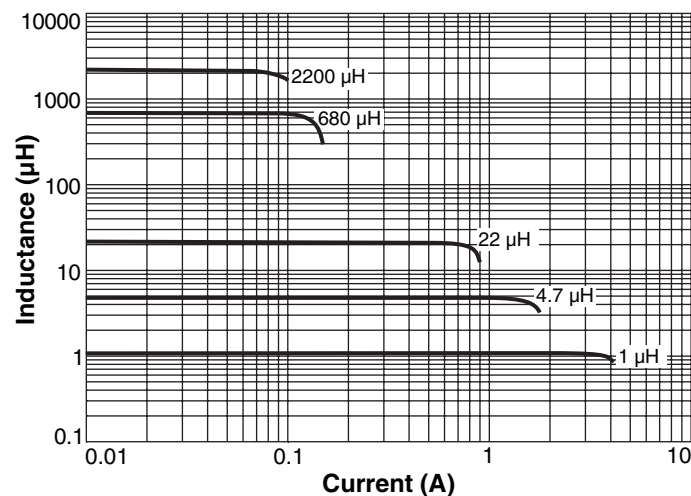
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Typical L vs Frequency



Typical L vs Current



Current Derating

