



# 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

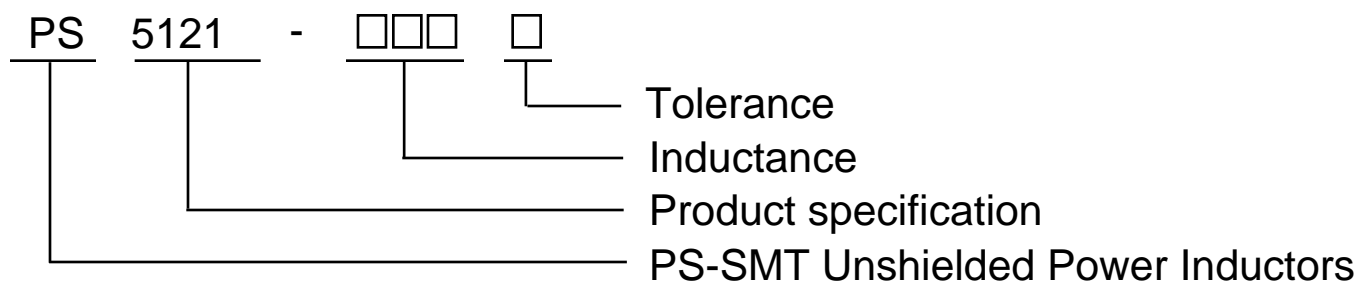
Email: xy@frcoil.com



## Shielded Power Inductors - PS5121

### 产品型号

### PRODUCT IDENTIFICATION



#### Tolerance:

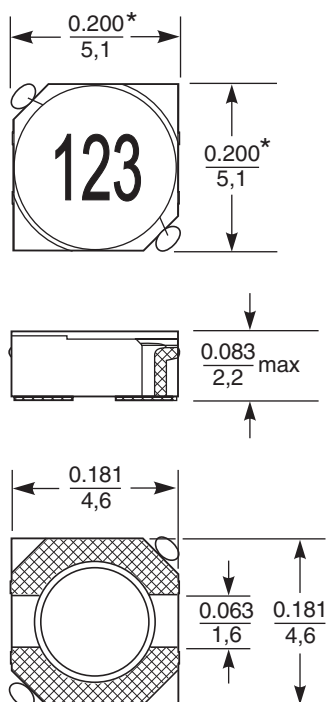
Code	Tolerance
102	1.0uH
103	10.0uH
104	100.0uH
105	1000.0uH
106	10000.0uH

#### Inductance:

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

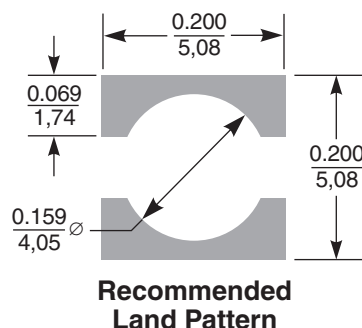
### 外观尺寸

### SHAPE AND DIMENSIONS



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

\*Dimensions are of the case not including the termination. For maximum overall dimensions including the termination, add 0.035 in / 0,9 mm.





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## Shielded Power Inductors - PS5121

### 规格特性

### SPECIFICATIONS

Part number	Inductance <sup>1</sup> ±20% (μH)	DCR max (Ohms)	SRF typ <sup>2</sup> (MHz)	Isat (A) <sup>3</sup>			Irms (A) <sup>4</sup>	
				10% drop	20% drop	30% drop	20°C rise	40°C rise
PS5121-222M	2.2	0.050	120.0	1.86	2.10	2.30	2.1	2.9
PS5121-332M	3.3	0.070	90.0	1.62	1.84	2.00	1.7	2.3
PS5121-472M	4.7	0.095	80.0	1.38	1.54	1.66	1.4	1.9
PS5121-562M	5.6	0.100	73.0	1.28	1.42	1.54	1.3	1.8
PS5121-682M	6.8	0.110	65.0	1.10	1.28	1.38	1.2	1.6
PS5121-822M	8.2	0.135	55.0	1.06	1.22	1.32	1.1	1.5
PS5121-103M	10	0.160	47.0	0.98	1.08	1.18	0.99	1.3
PS5121-123M	12	0.190	41.0	0.87	0.99	1.05	0.91	1.2
PS5121-153M	15	0.280	37.0	0.76	0.85	0.90	0.82	1.1
PS5121-183M	18	0.300	35.0	0.71	0.81	0.87	0.75	1.0
PS5121-223M	22	0.330	32.0	0.68	0.77	0.82	0.71	0.97
PS5121-273M	27	0.420	27.0	0.61	0.69	0.74	0.63	0.85
PS5121-333M	33	0.480	25.0	0.58	0.64	0.67	0.56	0.76
PS5121-393M	39	0.530	23.0	0.48	0.54	0.58	0.55	0.73
PS5121-473M	47	0.750	22.0	0.44	0.51	0.54	0.46	0.63
PS5121-563M	56	0.860	19.0	0.40	0.46	0.49	0.44	0.60
PS5121-683M	68	1.00	18.0	0.37	0.42	0.46	0.41	0.56
PS5121-823M	82	1.20	15.0	0.35	0.40	0.42	0.35	0.47
PS5121-104M	100	1.40	13.5	0.28	0.32	0.35	0.33	0.44
PS5121-124M	120	1.60	12.0	0.26	0.30	0.32	0.31	0.42
PS5121-154M	150	2.10	9.0	0.26	0.29	0.31	0.29	0.38
PS5121-184M	180	2.31	8.5	0.21	0.25	0.27	0.25	0.34
PS5121-224M	220	3.10	7.5	0.21	0.24	0.25	0.22	0.29
PS5121-274M	270	3.50	7.0	0.18	0.20	0.22	0.20	0.27
PS5121-334M	330	4.00	6.5	0.17	0.19	0.20	0.19	0.26
PS5121-394M	390	5.00	5.8	0.15	0.17	0.19	0.15	0.21

- Low profile shielded power inductors
- Low DCR, excellent current handling and low cost

1. Inductance measured at 100 kHz, 0.1 Vrms, 0 Adc using Frcoil SMD - A fixture in an Agilent/HP 4284A impedance analyzer.
2. SRF measured using an Agilent/HP 8753D network analyzer and a Frcoil SMD -D test fixture.
3. DC current at which the inductance drops the specified amount from its value without current.
4. Current that causes the specified temperature rise for 25°C ambient.
5. Electrical specifications at 25°C.

Designer's Kit C411 contains 3 of each value

**Core material** Ferrite

**Terminations** RoHS compliant gold over nickel over phos bronze. Other terminations available at additional cost.

**Weight** 141 – 147 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



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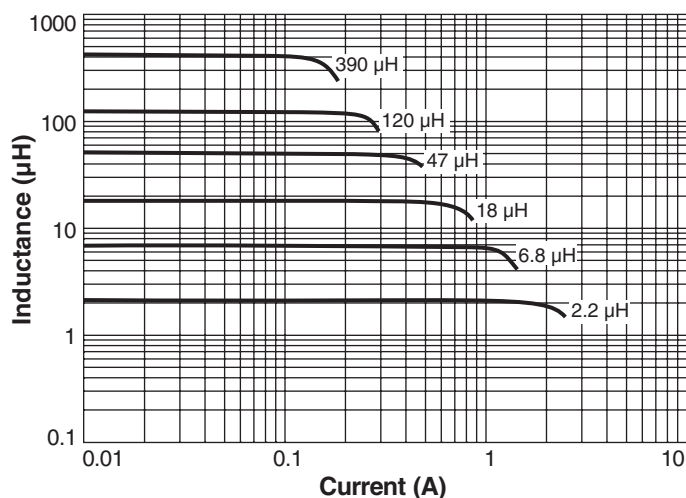


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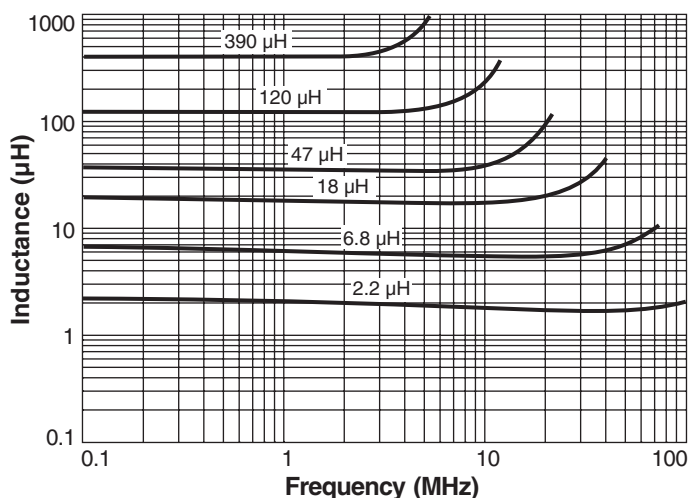
电气特性

TYPICAL ELECTRICAL CHARACTERISTICS

Typical L vs Current



Typical L vs Frequency



Current Derating

