

SMD Type Power Inductor

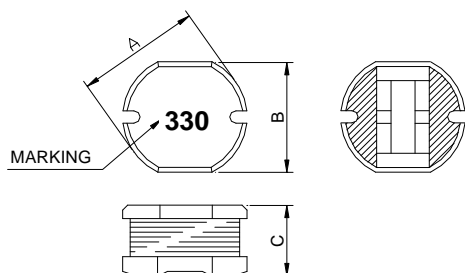
FPI0503BM-SERIES

1. Features

1. Excellent solderability and high heat resistance.
2. Excellent terminal strength construction.
3. Packed in embossed carrier tape and can be used by automatic mounting machine.
4. 100% Lead(Pb) & Halogen-Free and RoHS compliant.



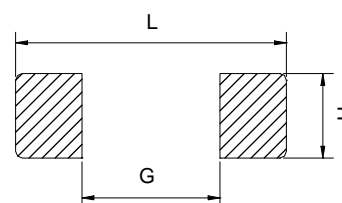
2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0503BM	5.80±0.3	5.20±0.3	3.00±0.3

Unit: mm

Recommended Land pattern



L(mm)	G(mm)	H(mm)
6.0	1.7	5.5

3. Part Numbering

FPI **0503** **BM** - **330** **M**

A B C D E

A: Series

B: Dimension

C: Lead free type

Black marking

D: Inductance

330=33.0uH

E: Inductance Tolerance

M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)		DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
	Tolerance	Test Frequency (Hz)			
FPI0503BM-1R5M	1.50±20%	1V/100K	37	4.10	4.10
FPI0503BM-1R8M	1.80±20%	1V/7.96M	50	4.00	2.80
FPI0503BM-4R7M	4.70±20%	1V/7.96M	130	1.30	1.30
FPI0503BM-6R8M	6.80±20%	1V/7.96M	71.2	1.87	1.87
FPI0503BM-8R2M	8.20±20%	1V/7.96M	100	2.00	2.00
FPI0503BM-100M	10.0±20%	1V/2.52M	200	1.90	1.90
FPI0503BM-330M	33.0±20%	1V/2.52M	450	1.40	1.40

Note:

Based on inductance change ($\Delta L/L0 : \leq -35\%$) @ ambient temp. 25°CBased on temperature rise ($\Delta T : 40^\circ\text{C}$ typ.)