SMD Type Power Inductor

FPI0504BM-SERIES

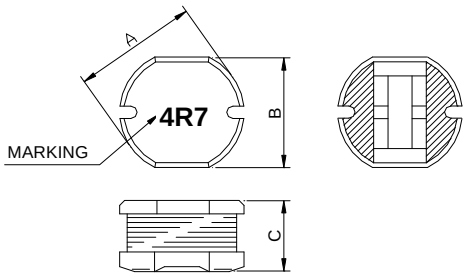
1. Features

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.

Halogen-free

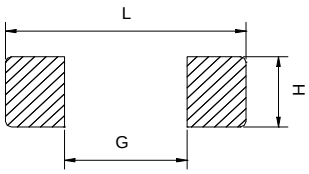
Pb-free

2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI 0504	5.80±0.3	5.20±0.3	4.50±0.3

Recommended Land pattern



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

3. Part Numbering

FPI	0504	BM	-	4R7	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — K=±10%, M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A) max.
FPI 0504BM-1R0M	1.0	± 20%	1V/7.96M	0.018	3.50
FPI 0504BM-1R4M	1.4	± 20%	1V/7.96M	0.020	3.50
FPI 0504BM-1R8M	1.8	± 20%	1V/7.96M	0.025	3.00
FPI 0504BM-2R2M	2.2	± 20%	1V/7.96M	0.030	2.80
FPI 0504BM-2R7M	2.7	± 20%	1V/7.96M	0.035	2.60
FPI 0504BM-3R3M	3.3	± 20%	1V/7.96M	0.040	2.50
FPI 0504BM-3R9M	3.9	± 20%	1V/7.96M	0.050	2.30
FPI 0504BM-4R7M	4.7	± 20%	1V/7.96M	0.060	2.60
FPI 0504BM-5R6M	5.6	± 20%	1V/7.96M	0.070	2.40
FPI 0504BM-6R8M	6.8	± 20%	1V/7.96M	0.080	2.20
FPI 0504BM-8R2M	8.2	± 20%	1V/7.96M	0.080	2.00
FPI 0504BM-100M	10	± 20%	1V/2.52M	0.090	1.80
FPI 0504BM-120M	12	± 20%	1V/2.52M	0.100	1.60
FPI 0504BM-150M	15	± 20%	1V/2.52M	0.120	1.50
FPI 0504BM-180M	18	± 20%	1V/2.52M	0.150	1.40
FPI 0504BM-220M	22	± 20%	1V/2.52M	0.180	1.30
FPI 0504BM-270M	27	± 20%	1V/2.52M	0.220	1.20
FPI 0504BM-330M	33	± 20%	1V/2.52M	0.260	1.00
FPI 0504BM-390M	39	± 20%	1V/2.52M	0.300	0.90
FPI 0504BM-470M	47	± 20%	1V/2.52M	0.350	0.85
FPI 0504BM-560M	56	± 20%	1V/2.52M	0.400	0.80
FPI 0504BM-680M	68	± 20%	1V/2.52M	0.450	0.70
FPI 0504BM-820M	82	± 20%	1V/2.52M	0.500	0.70
FPI 0504BM-101M	100	± 20%	1V/1K	0.700	0.60
FPI 0504BM-121M	120	± 20%	1V/1K	0.750	0.60
FPI 0504BM-151M	150	± 20%	1V/1K	0.900	0.55
FPI 0504BM-181M	180	± 20%	1V/1K	1.100	0.50
FPI 0504BM-221M	220	± 20%	1V/1K	1.200	0.40
FPI 0504BM-271M	270	± 20%	1V/1K	1.500	0.25
FPI 0504BM-331M	330	± 20%	1V/1K	3.000	0.22
FPI 0504BM-391M	390	± 20%	1V/1K	3.500	0.20
FPI 0504BM-471M	470	± 20%	1V/1K	4.000	0.19
FPI 0504BM-561M	560	± 20%	1V/1K	4.000	0.18
FPI 0504BM-681M	680	± 20%	1V/1K	4.500	0.15

Note:

Based on inductance change （△L/L0：≦-35%）@ ambient temp. 25℃

Based on temperature rise （△T：40℃ typ.）