SMD Type Power Inductor

FPI0504BMV-Series

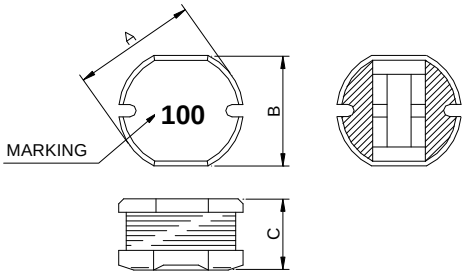
1. Features

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.
5. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125℃(Including self - temperature rise)

Halogen-free

RoHS

2. Dimensions



Size	A	B	C
FPI 0504	5.80±0.3	5.20±0.3	4.50±0.3

Units: mm

3. Part Numbering

FPI	0504	BMV	-	100	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking V=Vehicle
D: Inductance — 100=10uH
E: Inductance Tolerance — M=±20%

4. Specification

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