SMD Type Power Inductor

FPI0705BMV-Series

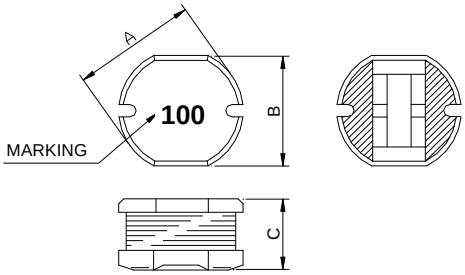
1. Features

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 0705	7.80±0.3	7.00±0.3	5.00±0.3

Units: mm

3. Part Numbering

FPI	0705	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 0705BMV-3R3M	3.3	± 20%	1V/7.96M	0.03	4.60
FPI 0705BMV-4R7M	4.7	± 20%	1V/7.96M	0.04	4.20
FPI 0705BMV-100M	10	± 20%	1V/2.52M	0.07	2.30
FPI 0705BMV-120M	12	± 20%	1V/2.52M	0.08	2.00
FPI 0705BMV-150M	15	± 20%	1V/2.52M	0.09	1.80
FPI 0705BMV-180M	18	± 20%	1V/2.52M	0.10	1.60
FPI 0705BMV-220M	22	± 20%	1V/2.52M	0.11	1.50
FPI 0705BMV-270M	27	± 20%	1V/2.52M	0.12	1.30
FPI 0705BMV-330M	33	± 20%	1V/2.52M	0.13	1.20
FPI 0705BMV-390M	39	± 20%	1V/2.52M	0.16	1.10
FPI 0705BMV-470K	47	± 10%	1V/2.52M	0.18	1.10
FPI 0705BMV-560K	56	± 10%	1V/2.52M	0.24	0.94
FPI 0705BMV-680K	68	± 10%	1V/2.52M	0.28	0.85
FPI 0705BMV-820K	82	± 10%	1V/2.52M	0.37	0.78
FPI 0705BMV-101K	100	± 10%	1V/1K	0.43	0.72
FPI 0705BMV-121K	120	± 10%	1V/1K	0.47	0.66
FPI 0705BMV-151K	150	± 10%	1V/1K	0.64	0.58
FPI 0705BMV-181K	180	± 10%	1V/1K	0.71	0.51
FPI 0705BMV-221K	220	± 10%	1V/1K	0.96	0.49
FPI 0705BMV-271K	270	± 10%	1V/1K	1.11	0.42
FPI 0705BMV-331K	330	± 10%	1V/1K	1.26	0.40
FPI 0705BMV-391K	390	± 10%	1V/1K	1.77	0.36
FPI 0705BMV-471K	470	± 10%	1V/1K	1.96	0.34

Note

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

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