

SMD Type Power Inductor

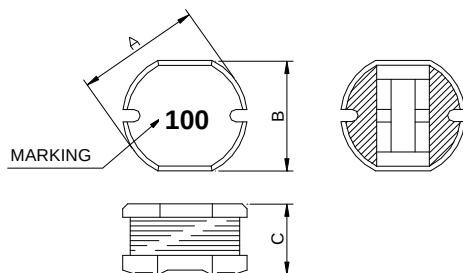
FPI0503BMV-Series

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°C (Including self - temperature rise)



2. Dimensions



Size	A	B	C
FPI 0503	5.80±0.3	5.20±0.3	3.00±0.3

Units: mm

3. Part Numbering

FPI
0503
BMV
-
100
M

A B C D E

A: Series

B: Dimension

C: Lead free type

D: Inductance

E: Inductance Tolerance

Black marking V=Vehicle

100=10uH

M=±20%

4. Specification

TAI-TECH Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR ($m\Omega$) max.	Isat (A) max.	Irms (A) max.
FPI 0503BMV-1R5M	1.5	$\pm 20\%$	1V/100K	37	4.10	4.10
FPI 0503BMV-1R8M	1.8	$\pm 20\%$	1V/7.96M	50	4.00	2.80
FPI 0503BMV-4R7M	4.7	$\pm 20\%$	1V/7.96M	130	1.30	1.30
FPI 0503BMV-6R8M	6.8	$\pm 20\%$	1V/7.96M	71.2	1.87	1.87
FPI 0503BMV-8R2M	8.2	$\pm 20\%$	1V/7.96M	100	2.00	2.00
FPI 0503BMV-100M	10	$\pm 20\%$	1V/2.52M	200	1.90	1.90
FPI 0503BMV-330M	33	$\pm 20\%$	1V/2.52M	450	1.40	1.40

Note:

Based on inductance change ($\Delta L/L_0$: 35%) @ ambient temp. 25°C

Based on temperature rise (ΔT : 40°C typ.)