

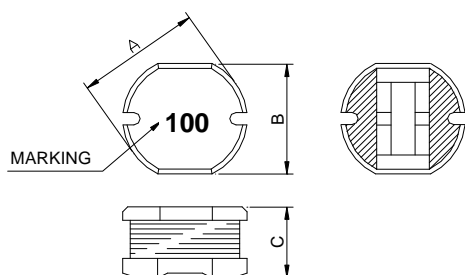
**SMD Type Power Inductor** FPI0302BMV-Series

**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 0302	3.50±0.3	3.00±0.3	2.10±0.3

Units: mm

**3. Part Numbering**



- 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 ( $\Omega$ ) max.	IDC (A) max.
FPI 0302BMV-1R0M	1.0	$\pm 20\%$	1V/7.96M	0.04	1.50
FPI 0302BMV-2R2M	2.2	$\pm 20\%$	1V/7.96M	0.08	0.75
FPI 0302BMV-3R3M	3.3	$\pm 20\%$	1V/7.96M	0.15	0.60
FPI 0302BMV-4R7M	4.7	$\pm 20\%$	1V/7.96M	0.20	0.50
FPI 0302BMV-5R6M	5.6	$\pm 20\%$	1V/7.96M	0.23	0.45
FPI 0302BMV-6R8M	6.8	$\pm 20\%$	1V/7.96M	0.25	0.40
FPI 0302BMV-8R2M	8.2	$\pm 20\%$	1V/7.96M	0.30	0.40
FPI 0302BMV-100M	10	$\pm 20\%$	1V/2.52M	0.35	0.35
FPI 0302BMV-120M	12	$\pm 20\%$	1V/2.52M	0.40	0.35
FPI 0302BMV-150M	15	$\pm 20\%$	1V/2.52M	0.50	0.30
FPI 0302BMV-180M	18	$\pm 20\%$	1V/2.52M	0.55	0.30
FPI 0302BMV-220M	22	$\pm 20\%$	1V/2.52M	0.60	0.30
FPI 0302BMV-270M	27	$\pm 20\%$	1V/2.52M	0.70	0.30
FPI 0302BMV-330M	33	$\pm 20\%$	1V/2.52M	1.00	0.25
FPI 0302BMV-390M	39	$\pm 20\%$	1V/2.52M	1.20	0.25
FPI 0302BMV-470M	47	$\pm 20\%$	1V/2.52M	1.50	0.20
FPI 0302BMV-560M	56	$\pm 20\%$	1V/2.52M	1.80	0.20
FPI 0302BMV-680M	68	$\pm 20\%$	1V/2.52M	2.00	0.18
FPI 0302BMV-820M	82	$\pm 20\%$	1V/2.52M	2.50	0.16
FPI 0302BMV-101M	100	$\pm 20\%$	1V/1K	3.00	0.15
FPI 0302BMV-121M	120	$\pm 20\%$	1V/1K	3.50	0.14
FPI 0302BMV-151M	150	$\pm 20\%$	1V/1K	4.00	0.13
FPI 0302BMV-221M	220	$\pm 20\%$	1V/1K	5.50	0.10
FPI 0302BMV-331M	330	$\pm 20\%$	1V/1K	7.00	0.10
FPI 0302BMV-471M	470	$\pm 20\%$	1V/1K	12.0	0.09

Note:

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

Based on temperature rise ( $\Delta T$  : 40°C typ. )