

# SMD Type Power Inductor

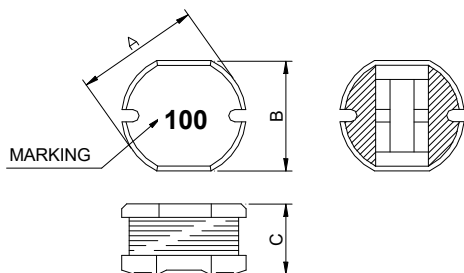
**FPI0703BM-SERIES**

## 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. Operating temperature : -40~+125°C (Including self - temperature rise).

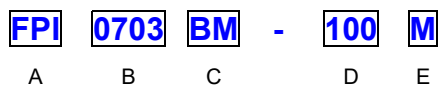


## 2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI0703	7.80±0.3	7.00±0.3	3.50±0.3

## 3. Part Numbering



- A: Series
- B: Dimension
- C: Lead free type                      Black marking
- D: Inductance                              100=10.0uH
- E: Inductance Tolerance                K=±10%, M=±20%

## 4. Specification

TAI-TECH Part Number	Inductance ( $\mu$ H)	Tolerance (%)	Test Frequency (Hz)	DCR ( $\Omega$ ) max.	IDC (A)
FPI0703BM-2R2M	2.2	$\pm 20\%$	1V/7.96M	0.030	5.0
FPI0703BM-100M	10	$\pm 20\%$	1V/2.52M	0.0803	1.44
FPI0703BM-120M	12	$\pm 20\%$	1V/2.52M	0.0897	1.39
FPI0703BM-150M	15	$\pm 20\%$	1V/2.52M	0.1040	1.24
FPI0703BM-180M	18	$\pm 20\%$	1V/2.52M	0.1110	1.12
FPI0703BM-220M	22	$\pm 20\%$	1V/2.52M	0.1290	1.07
FPI0703BM-270M	27	$\pm 20\%$	1V/2.52M	0.1530	0.97
FPI0703BM-330M	33	$\pm 20\%$	1V/2.52M	0.1700	0.85
FPI0703BM-390M	39	$\pm 20\%$	1V/2.52M	0.2170	0.74
FPI0703BM-470M	47	$\pm 20\%$	1V/2.52M	0.2520	0.68
FPI0703BM-560K	56	$\pm 10\%$	1V/2.52M	0.2820	0.64
FPI0703BM-680K	68	$\pm 10\%$	1V/2.52M	0.3320	0.59
FPI0703BM-820K	82	$\pm 10\%$	1V/2.52M	0.4060	0.54
FPI0703BM-101K	100	$\pm 10\%$	1V/1K	0.4810	0.51
FPI0703BM-121K	120	$\pm 10\%$	1V/1K	0.5360	0.49
FPI0703BM-151K	150	$\pm 10\%$	1V/1K	0.7550	0.40
FPI0703BM-181K	180	$\pm 10\%$	1V/1K	1.0220	0.36
FPI0703BM-221K	220	$\pm 10\%$	1V/1K	1.2000	0.31
FPI0703BM-271K	270	$\pm 10\%$	1V/1K	1.3060	0.29
FPI0703BM-331K	330	$\pm 10\%$	1V/1K	1.4950	0.28

Note:

- 1.Heat Rated Current (Irms) will cause the coil temperature rise approximately  $\Delta t$  of 40°C.
- 2.Saturation Current (Isat) will cause L0 to drop approximately 35%.
- 3.Rated DC Current : The less value which is Irms or Isat.