SMD Type Power Inductor

FPI0705BM-SERIES

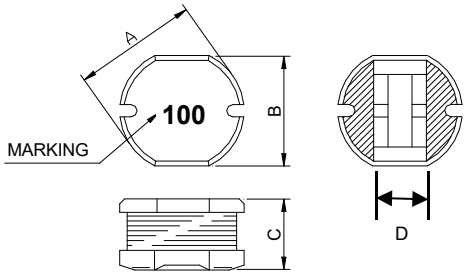
1. Features

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℃ (Including self - temperature rise).

Halogen-free

RoHS

2. Dimension



Size	A(mm)	B(mm)	C(mm)	D(mm)
FPI0705	7.80±0.3	7.00±0.3	5.00±0.3	2.60±0.3

3. Part Numbering

FPI	0705	BM	-	100	K
A	B	C		D	E

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 (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)
FPI0705BM-1R0M	1.00	± 20%	1V/7.96M	0.012	5.50
FPI0705BM-1R5M	1.50	± 20%	1V/7.96M	0.016	5.30
FPI0705BM-2R2M	2.20	± 20%	1V/7.96M	0.020	5.00
FPI0705BM-3R3M	3.30	± 20%	1V/7.96M	0.03	4.60
FPI0705BM-4R7M	4.70	± 20%	1V/7.96M	0.04	4.20
FPI0705BM-100M	10.0	± 20%	1V/2.52M	0.07	2.30
FPI0705BM-120M	12.0	± 20%	1V/2.52M	0.08	2.00
FPI0705BM-150M	15.0	± 20%	1V/2.52M	0.09	1.80
FPI0705BM-180M	18.0	± 20%	1V/2.52M	0.10	1.60
FPI0705BM-220M	22.0	± 20%	1V/2.52M	0.11	1.50
FPI0705BM-270M	27.0	± 20%	1V/2.52M	0.12	1.30
FPI0705BM-330M	33.0	± 20%	1V/2.52M	0.13	1.20
FPI0705BM-390M	39.0	± 20%	1V/2.52M	0.16	1.10
FPI0705BM-470K	47.0	± 10%	1V/2.52M	0.18	1.10
FPI0705BM-560K	56.0	± 10%	1V/2.52M	0.24	0.94
FPI0705BM-680K	68.0	± 10%	1V/2.52M	0.28	0.85
FPI0705BM-820K	82.0	± 10%	1V/2.52M	0.37	0.78
FPI0705BM-101K	100	± 10%	1V/1K	0.43	0.72
FPI0705BM-121K	120	± 10%	1V/1K	0.47	0.66
FPI0705BM-151K	150	± 10%	1V/1K	0.64	0.58
FPI0705BM-181K	180	± 10%	1V/1K	0.71	0.51
FPI0705BM-221K	220	± 10%	1V/1K	0.96	0.49
FPI0705BM-271K	270	± 10%	1V/1K	1.11	0.42
FPI0705BM-331K	330	± 10%	1V/1K	1.26	0.40
FPI0705BM-391K	390	± 10%	1V/1K	1.77	0.36
FPI0705BM-471K	470	± 10%	1V/1K	1.96	0.34
FPI0705BM-102K	1000	± 10%	1V/1K	7.000	0.14
FPI0705BM-152K	1500	± 10%	1V/1K	9.900	0.12
FPI0705BM-202K	2000	± 10%	1V/1K	15.00	0.10
FPI0705BM-252K	2500	± 10%	1V/1K	16.00	0.09

Note:

1.Heat Rated Current (Irms) will cause the coil temperature rise approximately △t of 40℃.

2.Saturation Current (Isat) will cause L0 to drop approximately 35%.

3.Rated DC Current： The less value whith is Irms or Isat.