SMD Type Power Inductor

FPI0302BM-SERIES

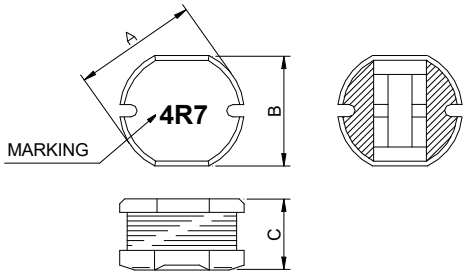
1. Features

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)
FPI0302	3.50±0.3	3.00±0.3	2.10±0.3

3. Part Numbering

FPI	0302	BM	-	4R7	M
A	B	C		D	E

A: Series
B: Dimension
C: Lead free type — Black marking
D: Inductance — 4R7=4.7uH
E: Inductance Tolerance — M=±20%

4. Specification

TAI-TECH Part Number	Inductance (uH)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)
FPI0302BM-1R0M	1.0	± 20%	1V/7.96M	0.04	1.50
FPI0302BM-1R4M	1.4	± 20%	1V/7.96M	0.05	1.50
FPI0302BM-1R8M	1.8	± 20%	1V/7.96M	0.06	0.80
FPI0302BM-2R2M	2.2	± 20%	1V/7.96M	0.08	0.75
FPI0302BM-2R7M	2.7	± 20%	1V/7.96M	0.10	0.75
FPI0302BM-3R3M	3.3	± 20%	1V/7.96M	0.15	0.60
FPI0302BM-3R9M	3.9	± 20%	1V/7.96M	0.20	0.50
FPI0302BM-4R7M	4.7	± 20%	1V/7.96M	0.20	0.50
FPI0302BM-5R6M	5.6	± 20%	1V/7.96M	0.23	0.45
FPI0302BM-6R8M	6.8	± 20%	1V/7.96M	0.25	0.40
FPI0302BM-8R2M	8.2	± 20%	1V/7.96M	0.30	0.40
FPI0302BM-100M	10	± 20%	1V/2.52M	0.35	0.35
FPI0302BM-120M	12	± 20%	1V/2.52M	0.40	0.35
FPI0302BM-150M	15	± 20%	1V/2.52M	0.50	0.30
FPI0302BM-180M	18	± 20%	1V/2.52M	0.55	0.30
FPI0302BM-220M	22	± 20%	1V/2.52M	0.60	0.30
FPI0302BM-270M	27	± 20%	1V/2.52M	0.70	0.30
FPI0302BM-330M	33	± 20%	1V/2.52M	1.00	0.25
FPI0302BM-390M	39	± 20%	1V/2.52M	1.20	0.25
FPI0302BM-470M	47	± 20%	1V/2.52M	1.50	0.20
FPI0302BM-560M	56	± 20%	1V/2.52M	1.80	0.20
FPI0302BM-680M	68	± 20%	1V/2.52M	2.00	0.18
FPI0302BM-820M	82	± 20%	1V/2.52M	2.50	0.16
FPI0302BM-101M	100	± 20%	1V/1K	3.00	0.15
FPI0302BM-121M	120	± 20%	1V/1K	3.50	0.14
FPI0302BM-151M	150	± 20%	1V/1K	4.00	0.13
FPI0302BM-181M	180	± 20%	1V/1K	5.00	0.12
FPI0302BM-221M	220	± 20%	1V/1K	5.50	0.10
FPI0302BM-271M	270	± 20%	1V/1K	6.00	0.10
FPI0302BM-331M	330	± 20%	1V/1K	7.00	0.10
FPI0302BM-391M	390	± 20%	1V/1K	8.00	0.10
FPI0302BM-471M	470	± 20%	1V/1K	12.00	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.