

SMD Type Power Inductor

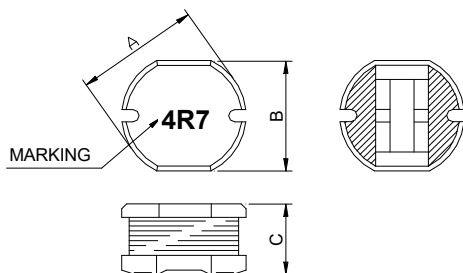
FPI0504BM-SERIES

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).

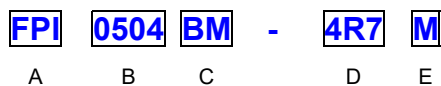


2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI0504	5.80±0.3	5.20±0.3	4.50±0.3

3. Part Numbering



- A: Series
- B: Dimension
- C: Lead free type Black marking
- D: Inductance 4R7=4.7uH
- E: Inductance Tolerance Y=±30%, M=±20%

4.Specification

TAIPAQ Part Number	Inductance (μ H)	Tolerance (%)	Test Frequency (Hz)	DCR (Ω) max.	IDC (A)
FPI0504BM-R47Y	0.47	$\pm 30\%$	1V/7.96M	0.010	7.00
FPI0504BM-1R0M	1.00	$\pm 20\%$	1V/7.96M	0.018	3.50
FPI0504BM-1R2M	1.20	$\pm 20\%$	1V/7.96M	0.019	3.50
FPI0504BM-1R4M	1.40	$\pm 20\%$	1V/7.96M	0.020	3.50
FPI0504BM-1R5M	1.50	$\pm 20\%$	1V/7.96M	0.025	3.50
FPI0504BM-1R8M	1.80	$\pm 20\%$	1V/7.96M	0.025	3.00
FPI0504BM-2R2M	2.20	$\pm 20\%$	1V/7.96M	0.030	2.80
FPI0504BM-2R7M	2.70	$\pm 20\%$	1V/7.96M	0.035	2.60
FPI0504BM-3R3M	3.30	$\pm 20\%$	1V/7.96M	0.040	2.50
FPI0504BM-3R6M	3.60	$\pm 20\%$	1V/7.96M	0.045	2.40
FPI0504BM-3R9M	3.90	$\pm 20\%$	1V/7.96M	0.050	2.30
FPI0504BM-4R7M	4.70	$\pm 20\%$	1V/7.96M	0.060	2.60
FPI0504BM-5R6M	5.60	$\pm 20\%$	1V/7.96M	0.070	2.40
FPI0504BM-6R8M	6.80	$\pm 20\%$	1V/7.96M	0.080	2.20
FPI0504BM-8R2M	8.20	$\pm 20\%$	1V/7.96M	0.080	2.00
FPI0504BM-100M	10.0	$\pm 20\%$	1V/2.52M	0.090	1.80
FPI0504BM-120M	12.0	$\pm 20\%$	1V/2.52M	0.100	1.60
FPI0504BM-150M	15.0	$\pm 20\%$	1V/2.52M	0.120	1.50
FPI0504BM-180M	18.0	$\pm 20\%$	1V/2.52M	0.150	1.40
FPI0504BM-220M	22.0	$\pm 20\%$	1V/2.52M	0.180	1.30
FPI0504BM-270M	27.0	$\pm 20\%$	1V/2.52M	0.220	1.20
FPI0504BM-330M	33.0	$\pm 20\%$	1V/2.52M	0.260	1.00
FPI0504BM-390M	39.0	$\pm 20\%$	1V/2.52M	0.300	0.90
FPI0504BM-470M	47.0	$\pm 20\%$	1V/2.52M	0.350	0.85
FPI0504BM-560M	56.0	$\pm 20\%$	1V/2.52M	0.400	0.80
FPI0504BM-680M	68.0	$\pm 20\%$	1V/2.52M	0.450	0.70
FPI0504BM-820M	82.0	$\pm 20\%$	1V/2.52M	0.500	0.70
FPI0504BM-101M	100	$\pm 20\%$	1V/1K	0.700	0.60
FPI0504BM-121M	120	$\pm 20\%$	1V/1K	0.750	0.60
FPI0504BM-151M	150	$\pm 20\%$	1V/1K	0.900	0.55
FPI0504BM-151K	150	$\pm 10\%$	1V/1K	0.900	0.55
FPI0504BM-181M	180	$\pm 20\%$	1V/1K	1.100	0.50
FPI0504BM-221M	220	$\pm 20\%$	1V/1K	1.200	0.40
FPI0504BM-271M	270	$\pm 20\%$	1V/1K	1.500	0.25
FPI0504BM-331M	330	$\pm 20\%$	1V/1K	3.000	0.22
FPI0504BM-391M	390	$\pm 20\%$	1V/1K	3.500	0.20
FPI0504BM-471M	470	$\pm 20\%$	1V/1K	4.000	0.19
FPI0504BM-561M	560	$\pm 20\%$	1V/1K	4.000	0.18
FPI0504BM-681M	680	$\pm 20\%$	1V/1K	4.500	0.15
FPI0504BM-102K	1000	$\pm 10\%$	1V/1K	7.000	0.14
FPI0504BM-152K	1500	$\pm 10\%$	1V/1K	9.900	0.12
FPI0504BM-202K	2000	$\pm 10\%$	1V/1K	15.000	0.10
FPI0504BM-252K	2500	$\pm 10\%$	1V/1K	16.000	0.09

Note:

1.Heat Rated Current (I_{rms}) will cause the coil temperature rise approximately Δt of 40°C.2.Saturation Current (I_{sat}) will cause L₀ to drop approximately 35%.3.Rated DC Current : The less value which is I_{rms} or I_{sat}.