

# SMD Type Power Inductor

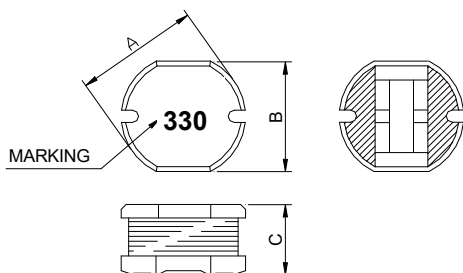
**FPI0503BM-SERIES**

## 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).

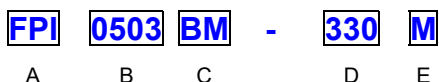


## 2. Dimension



Size	A(mm)	B(mm)	C(mm)
FPI0503BM	5.80±0.3	5.20±0.3	3.00±0.3

## 3. Part Numbering



- A: Series
- B: Dimension
- C: Lead free type                      Black marking
- D: Inductance                              330=33.0uH
- E: Inductance Tolerance                M=±20%

## 4.Specification

Part Number	Inductance (uH)		DCR (mΩ) max.	Isat (A)	Irms (A)
	Tolerance	Test Frequency (Hz)			
FPI0503BM-1R0M	1.00±20%	100KHz/1V	30	4.50	4.50
FPI0503BM-1R5M	1.50±20%	100KHz/1V	37	4.10	4.10
FPI0503BM-2R2M	2.20±20%	7.96MHz/1V	50	3.50	3.50
FPI0503BM-3R3M	3.30±20%	7.96MHz/1V	80	2.40	2.40
FPI0503BM-4R7M	4.70±20%	7.96MHz/1V	130	1.30	1.30
FPI0503BM-6R8M	6.80±20%	7.96MHz/1V	71.2	1.87	1.87
FPI0503BM-8R2M	8.20±20%	7.96MHz/1V	100	2.00	2.00
FPI0503BM-100M	10.0±20%	2.52MHz/1V	200	1.90	1.90
FPI0503BM-150M	15.0±20%	2.52MHz/1V	240	1.80	1.80
FPI0503BM-220M	22.0±20%	2.52MHz/1V	310	1.70	1.70
FPI0503BM-330M	33.0±20%	2.52MHz/1V	450	1.40	1.40
FPI0503BM-390M	39.0±20%	2.52MHz/1V	450	1.00	1.00
FPI0503BM-470M	47.0±20%	2.52MHz/1V	600	0.90	0.90
FPI0503BM-680M	68.0±20%	2.52MHz/1V	700	0.70	0.70
FPI0503BM-820M	82.0±20%	2.52MHz/1V	800	0.65	0.65
FPI0503BM-331M	330.0±20%	1KHz/1V	3500	0.30	0.30
FPI0503BM-471M	470.0±20%	1KHz/1V	4900	0.25	0.25

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.