

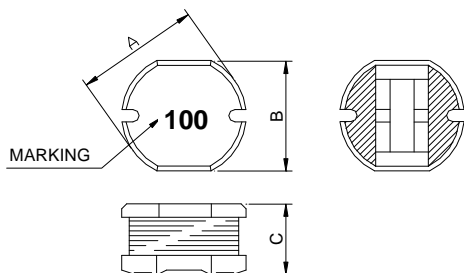
SMD Type Power Inductor **FPI0503BMV-Series**

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. High reliability -Reliability test meet AEC-Q200.
6. Operating temperature:-55~+125°C (Including self - temperature rise)



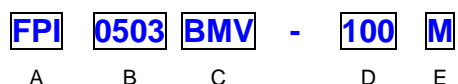
2. Dimensions



| Size | A | B | C |
|----------|----------|----------|----------|
| FPI 0503 | 5.80±0.3 | 5.20±0.3 | 3.00±0.3 |

Units: mm

3. Part Numbering



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

4. Specification

| TAI-TECH Part Number | Inductance (μ H) | Tolerance (%) | Test Frequency (Hz) | DCR ($m\Omega$) max. | Isat (A) max. | Irms (A) max. |
|-------------------------|--------------------------|------------------|---------------------------|---------------------------|------------------|------------------|
| FPI 0503BMV-1R5M | 1.5 | $\pm 20\%$ | 1V/100K | 37 | 4.10 | 4.10 |
| FPI 0503BMV-1R8M | 1.8 | $\pm 20\%$ | 1V/7.96M | 50 | 4.00 | 2.80 |
| FPI 0503BMV-4R7M | 4.7 | $\pm 20\%$ | 1V/7.96M | 130 | 1.30 | 1.30 |
| FPI 0503BMV-6R8M | 6.8 | $\pm 20\%$ | 1V/7.96M | 71.2 | 1.87 | 1.87 |
| FPI 0503BMV-8R2M | 8.2 | $\pm 20\%$ | 1V/7.96M | 100 | 2.00 | 2.00 |
| FPI 0503BMV-100M | 10 | $\pm 20\%$ | 1V/2.52M | 200 | 1.90 | 1.90 |
| FPI 0503BMV-330M | 33 | $\pm 20\%$ | 1V/2.52M | 450 | 1.40 | 1.40 |

Note:

Based on inductance change ($\Delta L/L0$: 35%) @ ambient temp. 25°C

Based on temperature rise (ΔT : 40°C typ.)