

# Shielded, SMT Power Inductors

## Special Features

- High current capacity
- Magnetic shielded for low radiation
- Ferrite bobbin core
- Low core loss for high frequency power application
- Compact size
- Large terminal surface for good PCB bonding
- Easy access for reflow soldering inspection
- Operating temperature -30 to +100°C
- Tape & reel packaged 500/reel

## Typical Applications

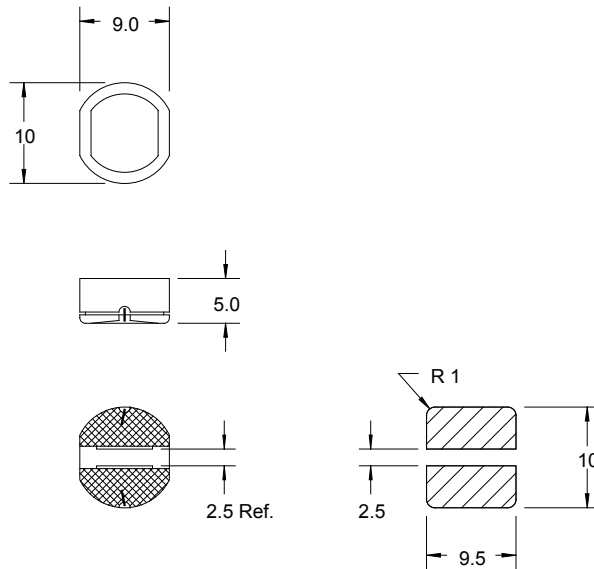
- Desktop, notebook computers, servers
- Network hubs, bridges, routers
- xDSL, PBX base stations
- PDAs, MP3 players
- Digital TV, DVD, cable modems, DSS set-top boxes
- Battery chargers
- High frequency wireless communication devices
- Electronic game devices
- Industrial electronics

## Notes

- \* Current to cause 10% of inductance drop, or 40°C temperature rise

| PM105SB Series |                |            |                   |                 |            |
|----------------|----------------|------------|-------------------|-----------------|------------|
| Part Number    | L (uH)<br>±20% | Test Freq. | SRF (MHz)<br>Typ. | DCR (Ω)<br>Max. | I, DC* (A) |
| PM105SB-100M   | 10             | 2.52MHz    | 29                | 0.06            | 2.06       |
| PM105SB-120M   | 12             | 2.52MHz    | 26                | 0.07            | 1.94       |
| PM105SB-150M   | 15             | 2.52MHz    | 24                | 0.07            | 1.72       |
| PM105SB-180M   | 18             | 2.52MHz    | 21                | 0.08            | 1.58       |
| PM105SB-220M   | 22             | 2.52MHz    | 18                | 0.08            | 1.42       |
| PM105SB-270M   | 27             | 2.52MHz    | 17                | 0.10            | 1.32       |
| ± 15%          |                |            |                   |                 |            |
| PM105SB-330L   | 33             | 2.52MHz    | 14                | 0.11            | 1.16       |
| PM105SB-390L   | 39             | 2.52MHz    | 14                | 0.12            | 1.10       |
| PM105SB-470L   | 47             | 2.52MHz    | 11                | 0.14            | 1.00       |
| PM105SB-560L   | 56             | 2.52MHz    | 11                | 0.19            | 0.93       |
| PM105SB-680L   | 68             | 2.52MHz    | 10                | 0.21            | 0.85       |
| PM105SB-820L   | 82             | 2.52MHz    | 9                 | 0.28            | 0.79       |
| ± 10%          |                |            |                   |                 |            |
| PM105SB-101K   | 100            | 1KHz       | 8                 | 0.34            | 0.72       |
| PM105SB-121K   | 120            | 1KHz       | 7                 | 0.37            | 0.63       |
| PM105SB-151K   | 150            | 1KHz       | 6                 | 0.51            | 0.55       |
| PM105SB-181K   | 180            | 1KHz       | 5                 | 0.57            | 0.50       |
| PM105SB-221K   | 220            | 1KHz       | 5                 | 0.78            | 0.47       |
| PM105SB-271K   | 270            | 1KHz       | 5                 | 0.87            | 0.41       |
| PM105SB-331K   | 330            | 1KHz       | 4                 | 1.20            | 0.37       |
| PM105SB-391K   | 390            | 1KHz       | 3                 | 1.34            | 0.35       |
| PM105SB-471K   | 470            | 1KHz       | 3                 | 1.50            | 0.33       |

Also available as RoHS compliant.



Dimensions: mm  
Tolerance: +/- 0.5

Pad Layout

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