

Multilayer Chip Inductors, High Frequency Applications



Model PM0603H Series is obsolete and not recommended for new designs. Model **CM160808** is preferred.

Special Features

- Monolithic construction provides high reliability
- High Q characteristic
- High frequency application
- Ferrite material construction provides magnetic shielding to reduce radiation
- Operating temperature -25 to +105 °C
- Tape & reel packaged 4000/reel

Typical Applications

- Small cellular phones
- PDAs
- Pagers
- Hand-held organizers
- High frequency wireless communication devices
- Notebook computers
- Printers
- Network cards
- Industrial electronics
- Entertainment electronic devices

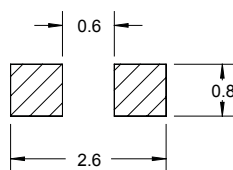
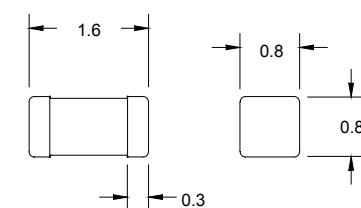
Notes

- * Current to cause 20 °C of temperature rise

† RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

| PM0603H Series | | | | | | | |
|------------------|----------------|---------------|---------------|------------|----------|--------|-------------------|
| Part Number | L (nH) | Q | Q | SRF | DCR | I, DC* | Bourns Equivalent |
| | ±0.3nH @100MHz | Typ. @ 100MHz | Typ. @ 800MHz | (MHz) Typ. | (Ω) Max. | (mA) | |
| PM0603H-1N5-RC | 1.5 | 12 | 37 | 6000 | 0.10 | 300 | CM160808 |
| PM0603H-1N8-RC | 1.8 | 12 | 37 | 6000 | 0.10 | 300 | |
| PM0603H-2N2-RC | 2.2 | 12 | 38 | 6000 | 0.10 | 300 | |
| PM0603H-2N7-RC | 2.7 | 13 | 41 | 6000 | 0.10 | 300 | |
| PM0603H-3N3-RC | 3.3 | 14 | 45 | 5700 | 0.12 | 300 | |
| PM0603H-3N9-RC | 3.9 | 13 | 43 | 5600 | 0.14 | 300 | |
| PM0603H-4N7-RC | 4.7 | 13 | 43 | 4800 | 0.16 | 300 | |
| PM0603H-5N6-RC | 5.6 | 14 | 42 | 4350 | 0.18 | 300 | |
| | ±5 % | | | | | | |
| PM0603H-6N8J-RC | 6.8 | 14 | 43 | 3750 | 0.22 | 300 | |
| PM0603H-8N2J-RC | 8.2 | 14 | 44 | 3300 | 0.24 | 300 | |
| PM0603H-10NJ-RC | 10 | 14 | 44 | 2850 | 0.26 | 300 | |
| PM0603H-12NJ-RC | 12 | 15 | 44 | 2700 | 0.28 | 300 | |
| PM0603H-15NJ-RC | 15 | 15 | 46 | 2400 | 0.32 | 300 | |
| PM0603H-18NJ-RC | 18 | 15 | 44 | 2050 | 0.35 | 300 | |
| PM0603H-22NJ-RC | 22 | 16 | 44 | 1850 | 0.40 | 300 | |
| PM0603H-27NJ-RC | 27 | 16 | 45 | 1750 | 0.45 | 300 | |
| PM0603H-33NJ-RC | 33 | 16 | 46 | 1500 | 0.55 | 300 | |
| PM0603H-39NJ-RC | 39 | 16 | 41 | 1350 | 0.60 | 300 | |
| PM0603H-47NJ-RC | 47 | 16 | 38 | 1200 | 0.70 | 300 | |
| PM0603H-56NJ-RC | 56 | 16 | 34 | 1150 | 0.75 | 300 | |
| PM0603H-68NJ-RC | 68 | 16 | 30 | 1050 | 0.85 | 300 | |
| PM0603H-82NJ-RC | 82 | 16 | 20 | 1000 | 0.95 | 300 | |
| PM0603H-100NJ-RC | 100 | 16 | 12 | 925 | 1.00 | 300 | |

"-RC" suffix indicates RoHS compliance.



Pad Layout

Dimensions: mm
Tolerance: +/- 0.15