

# Multilayer Chip Inductors, General Applications



Model PM0805G Series is obsolete and not recommended for new designs. Model CV201210 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 (0.047-8.2 μH)  
3000/reel (10-33 μH)

### 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

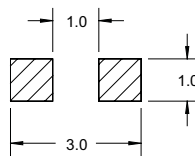
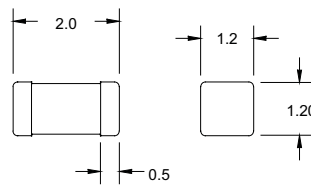
† RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

| PM0805G Series     |                |           |                     |                      |                    |                |                   |
|--------------------|----------------|-----------|---------------------|----------------------|--------------------|----------------|-------------------|
| Part Number        | L (μH)<br>±5 % | Q<br>Typ. | Test Freq.<br>(MHz) | SRF<br>(MHz)<br>Typ. | DCR<br>(Ω)<br>Max. | I, DC*<br>(mA) | Bourns Equivalent |
| PM0805G-R047J-RC   | 0.047          | 15        | 50                  | 320                  | 0.20               | 300            |                   |
| PM0805G-R068J-RC   | 0.068          | 15        | 50                  | 280                  | 0.20               | 300            |                   |
| PM0805G-R082J-RC   | 0.082          | 15        | 50                  | 255                  | 0.20               | 300            |                   |
| PM0805G-R10J-RC    | 0.10           | 20        | 25                  | 235                  | 0.30               | 250            |                   |
| PM0805G-R12J-RC    | 0.12           | 20        | 25                  | 220                  | 0.30               | 250            |                   |
| PM0805G-R15J-RC    | 0.15           | 20        | 25                  | 200                  | 0.40               | 250            |                   |
| PM0805G-R18J-RC    | 0.18           | 20        | 25                  | 185                  | 0.40               | 250            |                   |
| PM0805G-R22J-RC    | 0.22           | 20        | 25                  | 170                  | 0.50               | 250            |                   |
| PM0805G-R27J-RC    | 0.27           | 20        | 25                  | 150                  | 0.50               | 250            |                   |
| PM0805G-R33J-RC    | 0.33           | 20        | 25                  | 145                  | 0.55               | 250            |                   |
| PM0805G-R39J-RC    | 0.39           | 25        | 25                  | 135                  | 0.65               | 200            |                   |
| PM0805G-R47J-RC    | 0.47           | 25        | 25                  | 125                  | 0.65               | 200            |                   |
| PM0805G-R56J-RC    | 0.56           | 25        | 25                  | 115                  | 0.63               | 150            |                   |
| PM0805G-R68J-RC    | 0.68           | 25        | 25                  | 105                  | 0.80               | 150            |                   |
| PM0805G-R82J-RC    | 0.82           | 25        | 25                  | 100                  | 1.00               | 150            |                   |
| PM0805G-1R0J-RC    | 1.0            | 45        | 10                  | 75                   | 0.40               | 50             |                   |
| PM0805G-1R2J-RC    | 1.2            | 45        | 10                  | 65                   | 0.50               | 50             |                   |
| PM0805G-1R5J-RC    | 1.5            | 45        | 10                  | 60                   | 0.50               | 50             |                   |
| PM0805G-1R8J-RC    | 1.8            | 45        | 10                  | 55                   | 0.60               | 50             |                   |
| PM0805G-2R2J-RC    | 2.2            | 45        | 10                  | 50                   | 0.65               | 30             |                   |
| PM0805G-2R7J-RC    | 2.7            | 45        | 10                  | 45                   | 0.75               | 30             |                   |
| PM0805G-3R3J-RC    | 3.3            | 45        | 10                  | 41                   | 0.80               | 30             |                   |
| PM0805G-3R9K-RC<1> | 3.9            | 45        | 10                  | 38                   | 0.90               | 15             |                   |
| PM0805G-4R7J-RC    | 4.7            | 45        | 10                  | 35                   | 1.00               | 15             |                   |
| PM0805G-5R6J-RC    | 5.6            | 50        | 4                   | 32                   | 0.90               | 15             |                   |
| PM0805G-6R8J-RC    | 6.8            | 50        | 4                   | 29                   | 1.00               | 15             |                   |
| PM0805G-8R2J-RC    | 8.2            | 50        | 4                   | 26                   | 1.10               | 15             |                   |
| PM0805G-10J-RC     | 10             | 50        | 2                   | 24                   | 1.15               | 15             |                   |
|                    | ±20 %          |           |                     |                      |                    |                |                   |
| PM0805G-120M-RC    | 12             | 50        | 1                   | 22                   | 1.25               | 15             |                   |
| PM0805G-150M-RC    | 15             | 30        | 1                   | 19                   | 0.80               | 5              |                   |
| PM0805G-180M-RC    | 18             | 30        | 1                   | 18                   | 0.90               | 5              |                   |
| PM0805G-220M-RC    | 22             | 30        | 1                   | 16                   | 1.10               | 5              |                   |
| PM0805G-270M-RC    | 27             | 30        | 1                   | 14                   | 1.15               | 5              |                   |
| PM0805G-330M-RC    | 33             | 30        | 0.4                 | 13                   | 1.25               | 5              |                   |

CV201210

"-RC" suffix indicates RoHS compliance.

<1> Tolerance ±10 %



Pad Layout

Dimensions: mm  
Tolerance: +/- 0.2



Tel. (877) 426-8767 • Fax (951) 781-5006

www.bourns.com