

# 0805 Multilayer Chip Inductors, High Frequency Applications

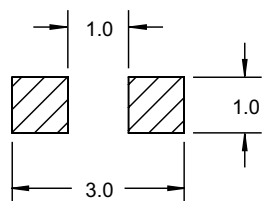
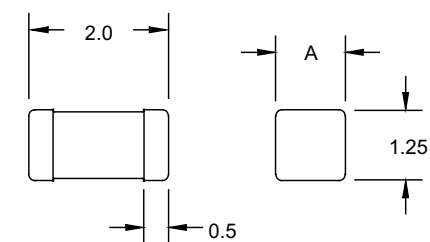
## Special Features

- Monolithic construction provides high reliability
- High Q characteristic
- Ceramic material construction provides very stable electrical characteristics
- Operating temperature -25 to +105°C
- Current to cause 20°C temperature rise
- Tape & reel packaged  
2000/reel (1.25 thickness)  
4000/reel (0.85 thickness)

## Typical Applications

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

| PM0805H Series |                   |        |                     |                     |                   |                 |            |                       |
|----------------|-------------------|--------|---------------------|---------------------|-------------------|-----------------|------------|-----------------------|
| Part Number    | L (nH)<br>± 0.3nH | Q Typ. | Test Freq.<br>(MHz) | Q Typ.<br>@ 800 MHz | SRF (MHz)<br>Typ. | DCR (Ω)<br>Max. | I, DC (mA) | Thickness Dim. A (mm) |
| PM0805H-1N5    | 1.5               | 10     | 100                 | 50                  | 6000              | 0.10            | 300        | 0.85                  |
| PM0805H-1N8    | 1.8               | 10     | 100                 | 52                  | 6000              | 0.10            | 300        | 0.85                  |
| PM0805H-2N2    | 2.2               | 11     | 100                 | 53                  | 6000              | 0.10            | 300        | 0.85                  |
| PM0805H-2N7    | 2.7               | 12     | 100                 | 56                  | 6000              | 0.10            | 300        | 0.85                  |
| PM0805H-3N3    | 3.3               | 13     | 100                 | 56                  | 6000              | 0.13            | 300        | 0.85                  |
| PM0805H-3N9    | 3.9               | 13     | 100                 | 58                  | 5400              | 0.15            | 300        | 0.85                  |
| PM0805H-4N7    | 4.7               | 14     | 100                 | 58                  | 4500              | 0.20            | 300        | 0.85                  |
| PM0805H-5N6    | 5.6               | 14     | 100                 | 60                  | 4000              | 0.23            | 300        | 0.85                  |
| ± 5%           |                   |        |                     |                     |                   |                 |            |                       |
| PM0805H-6N8J   | 6.8               | 15     | 100                 | 60                  | 3650              | 0.25            | 300        | 0.85                  |
| PM0805H-8N2J   | 8.2               | 15     | 100                 | 64                  | 3000              | 0.28            | 300        | 0.85                  |
| PM0805H-10NJ   | 10                | 15     | 100                 | 60                  | 2500              | 0.30            | 300        | 0.85                  |
| PM0805H-12NJ   | 12                | 16     | 100                 | 60                  | 2450              | 0.35            | 300        | 0.85                  |
| PM0805H-15NJ   | 15                | 16     | 100                 | 63                  | 2200              | 0.40            | 300        | 0.85                  |
| PM0805H-18NJ   | 18                | 17     | 100                 | 63                  | 1750              | 0.45            | 300        | 0.85                  |
| PM0805H-22NJ   | 22                | 18     | 100                 | 60                  | 1700              | 0.50            | 300        | 0.85                  |
| PM0805H-27NJ   | 27                | 17     | 100                 | 58                  | 1550              | 0.55            | 300        | 0.85                  |
| PM0805H-33NJ   | 33                | 18     | 100                 | 55                  | 1350              | 0.60            | 300        | 0.85                  |
| PM0805H-39NJ   | 39                | 18     | 100                 | 47                  | 1300              | 0.65            | 300        | 0.85                  |
| PM0805H-47NJ   | 47                | 18     | 100                 | 43                  | 1200              | 0.70            | 300        | 0.85                  |
| PM0805H-56NJ   | 56                | 19     | 100                 | 39                  | 1150              | 0.75            | 300        | 0.85                  |
| PM0805H-68NJ   | 68                | 19     | 100                 | 30                  | 1000              | 0.80            | 300        | 0.85                  |
| PM0805H-82NJ   | 82                | 19     | 100                 | 10                  | 850               | 0.90            | 300        | 0.85                  |
| PM0805H-100NJ  | 100               | 23     | 100                 | -                   | 700               | 0.90            | 300        | 1.25                  |
| PM0805H-120NJ  | 120               | 16     | 50                  | -                   | 650               | 0.95            | 300        | 1.25                  |
| PM0805H-150NJ  | 150               | 16     | 50                  | -                   | 550               | 1.00            | 300        | 1.25                  |
| PM0805H-180NJ  | 180               | 16     | 50                  | -                   | 500               | 1.10            | 300        | 1.25                  |
| PM0805H-220NJ  | 220               | 16     | 50                  | -                   | 430               | 1.20            | 300        | 1.25                  |
| PM0805H-270NJ  | 270               | 18     | 50                  | -                   | 650               | 0.95            | 300        | 1.25                  |
| PM0805H-330NJ  | 330               | 18     | 50                  | -                   | 550               | 1.00            | 300        | 1.25                  |
| PM0805H-390NJ  | 390               | 18     | 50                  | -                   | 500               | 1.10            | 300        | 1.25                  |
| PM0805H-470NJ  | 470               | 16     | 50                  | -                   | 430               | 1.20            | 300        | 1.25                  |



Pad Layout

Tol:  $\pm 0.2$   
Dim: mm

**J.W. Miller**  
M A G N E T I C S

306 E. Alondra Blvd., Gardena, CA 90247-1059 • (310) 515-1720 • FAX (310) 515-1962

www.jwmiller.com