

MLG0603PPA Series Inductors

Multilayer High-Frequency Inductors



TDK's MLG0603PPA series multilayer inductors feature a non-magnetic core made of dielectric ceramic material and have a high Q factor. These inductors have been designed for use in high-frequency circuits. This MLG0603PPA series has low direct current resistance for compatibility with large currents and is optimal for low power consumptions as compared with existing MLG series product of the same size. The advanced monolithic structure of the product is formed using a multilayering and sintering process with ceramic and conductive materials for high frequency.

Features

- High Q type inductor
- Low direct current resistance for compatibility with large currents
- Optimal for low power consumption
- Package size of 0.6mm x 0.3mm x 0.3mm
- Operating temperature range of -55°C to $+125^{\circ}\text{C}$
- Storage temperature range of -55°C to $+125^{\circ}\text{C}$ after the circuit board is mounted

Applications

- Smart phones & tablet terminals
- High frequency modules (PAs, VCOs, FEMs, etc.)
- Bluetooth, W-LAN, UWB, tuners
- Other high frequency circuits for the mobile communications industry

High Frequency

Multilayer



[MLG0603PPA Datasheet](#)

MLG0603PPA Series Inductor Information:

Case Size: 0603—0.6mm x 0.3mm \pm 0.03mm

Inductance Range: 2.2-4.7nH

Current Rating (max.): 900-1400mA

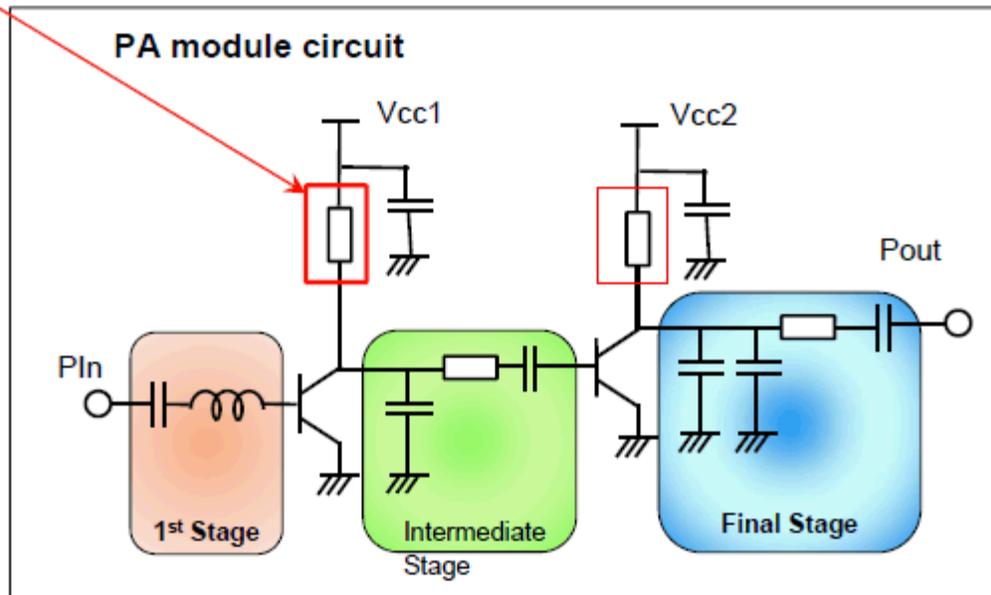
DC Resistance (max.): 0.054-0.138 Ω

Q Value: 10 min. @500MHz

Pieces per Reel: 15,000

MLG0603PPA Series Recommended Use

MLG0603PPA Inductor for DC Line



Target use as choke/isolation inductor in RF amp due to high DC current capabilities