

MIE Series

Multilayer Chip Inductor for Choke Size 0603



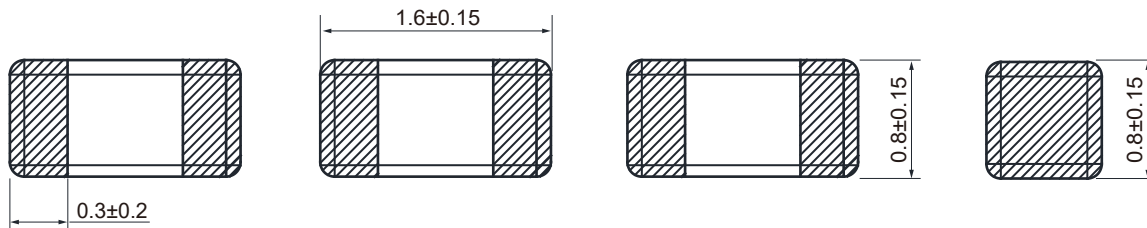
FEATURES

Monolithic structure for high reliability
Excellent solderability and high heat resistance
No cross coupling due to magnetic shield
High DC bias current due to developed material
Low DC resistance

APPLICATIONS

Choke circuits in DC power line of consumer electronics
such as personal computers, mobile phones, digital cameras,
digital video cameras, and music players

Dimensions: [mm]



Electrical Properties:

Part Number	Inductance μH	L Test Freq. MHz	SRF Min. MHz	DCR Ω	Rated Current Max. mA	Thickness mm [inch]
MIE0603-R10M	0.1	1	240	$0.14 \pm 30\%$	700	0.8 ± 0.15 [.031 \pm .006]
MIE0603-R22M	0.22	1	150	$0.27 \pm 30\%$	550	
MIE0603-R47M	0.47	1	105	$0.42 \pm 30\%$	400	
MIE0603-1R0M	1.0	1	75	$0.20 \pm 30\%$	190	
MIE0603-2R2M	2.2	1	50	$0.40 \pm 30\%$	140	
MIE0603-4R7M	4.7	1	35	$0.60 \pm 30\%$	100	
MIE0603-100M	10	1	20	$0.90 \pm 30\%$	50	

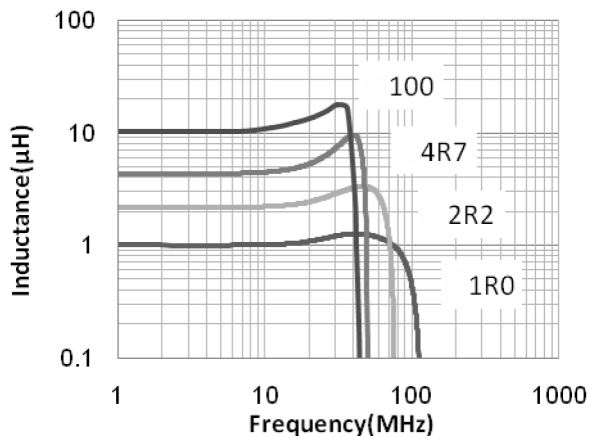
Operating Temperature : $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$

Tolerance code (M= $\pm 20\%$)

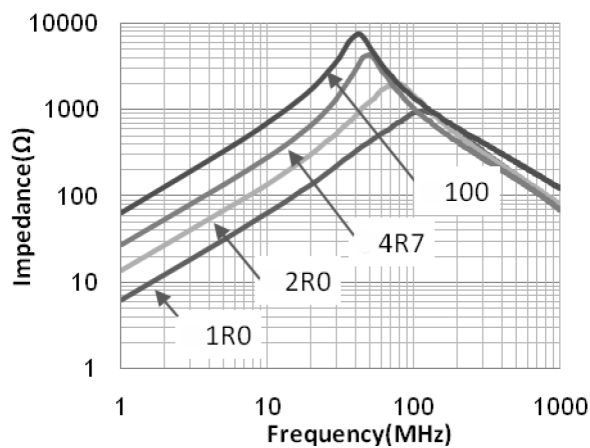
The rated current is the value of DC current at which the inductance value is dropped within 50% with the application of DC bias.

Typical Electrical Characteristics:

Inductance vs. Frequency Characteristics



Impedance vs. Frequency Characteristics



Inductance vs. DC Current Characteristics

