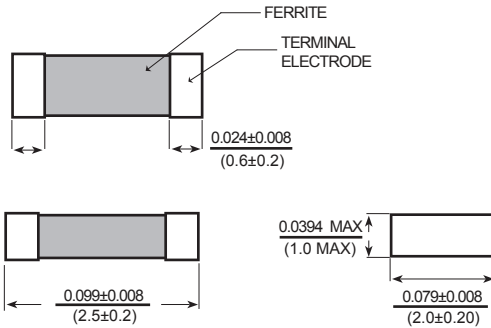




Multilayer Power Chip Inductor MLPC15N6

Dimensions: $\frac{\text{Inches}}{\text{(mm)}}$



Allied Part Number	Inductance (μH)	Tolerance (%)	Test Freq. MHz, 200mV	DCR (Ω ±25%)	Isat (mA) Max	Irms (mA) Max
MLPC15N6-R47M-RC	0.47	20	3	0.04	1500	1800
MLPC15N6-1R0M-RC	1.0	20	3	0.055	900	1600
MLPC15N6-2R2M-RC	2.2	20	3	0.08	500	1300
MLPC15N6-3R3M-RC	3.3	20	3	0.10	400	1200
MLPC15N6-4R7M-RC	4.7	20	3	0.11	300	1100

All specifications subject to change without notice.

Features

- 1008 EIA Size
- High Current Capacity
- Low DCR
- Multilayer Ferrite Construction
- Excellent Solderability Characteristics

Electrical

Inductance Range: 0.47μH ~ 4.7μH

Tolerance: 20% across entire range
Also available in 30%

Test Frequency: 3MHz, 200mV

Operating Temp: -55°C to +125°C

Isat Current: Based on a 30% Inductance drop from its original value without current.

Irms Current: Based on a 40°C temperature rise from 25°C ambient without current.

Resistance to Soldering Heat

Pre-heating: 150°C, 1min

Solder Composition: Sn/Ag3.0/Cu0.5

Solder Temperature: 260 ± 5°C

Immersion Time: 10 ± 1sec

No Damage with more than 75% coverage
Inductance within 20 of initial value.

Test Equipment

(L): Agilent HP4287A + 16197A, 3MHz, 200mV

DCR: HP 4338B, or equivalent

Physical

Packaging: 3000 pieces per 7 inch reel.

Marking: None

Recommended Pad Layout

