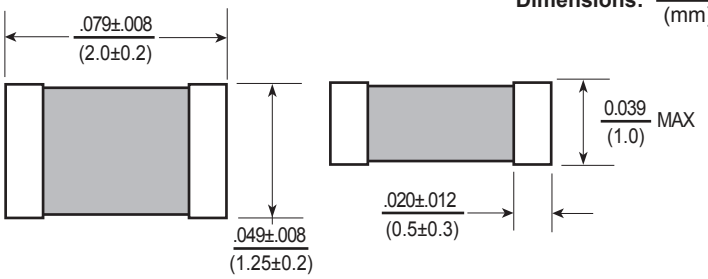
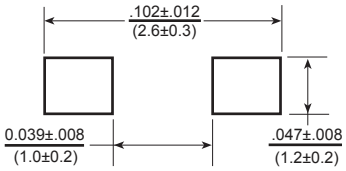
MLPCH11 High Current Multilayer Inductor

RoHS

Dimensions: Inches (mm)





Recommended PCB Layout

Allied Part Number	Inductance (µH)	Tolerance (%)	Test Freq. (MHz)	DCR (Ω ±25%)	Isat (mA) Typ. (Max)	Irms(mA) Typ. (Max
MLPCH11-R24M-RC	0.24	20	3	0.03	2700(3300)	2400(3200)
MLPCH11-R47M-RC	0.47	20	3	0.06	1600(2000)	2200(3000)
MLPCH11-1R0M-RC	1.0	20	3	0.10	1400(1700)	1800(2100)
MLPCH11-2R2M-RC	2.2	20	3	0.125	500(800)	1600(1900)

All specifications subject to change without notice.

Features

- High Saturation current up to 3.3A
- Expanded operating temp range
- Low DC Resistance
- Multilayer Ferrite Construction
- Suitable for pick and place

Electrical

Inductance Range: .22µH to 2.2µH
Tolerance: 20%
Test Frequency: (L) 3MHz, 200mV
Operating Temp: -55ºC to +125ºC (Including self-temperature rise)
Isat: Based on Inductance drop 30% from initial value without current
Irms: Based on 40°C temp rise above ambient 25°C.
Under no condition should the temperature of part exceed 125°C.

Resistance to Soldering Heat

Pre-heat: 150ºC, 1min
Solder Composition: Sn/Ag3.0/Cu5.0
Solder Temperature: 260°C ± 5°C
Immersion Time: 10Sec ± 1Sec

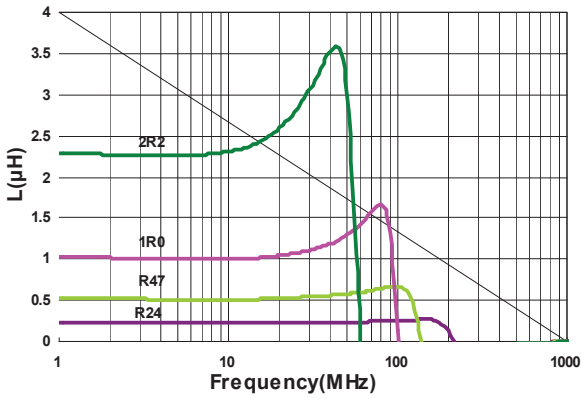
Test Equipment

(L): HP4287A
DCR: HP4338B

Physical

Packaging: 3000 pieces per 7 inch reel
Marking: None

Inductance vs. Frequency Chaaracteristics



Inductance vs. DC Current