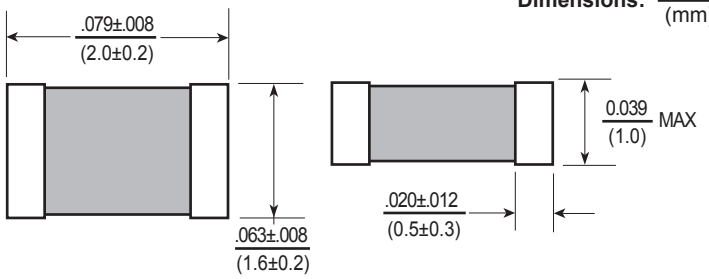
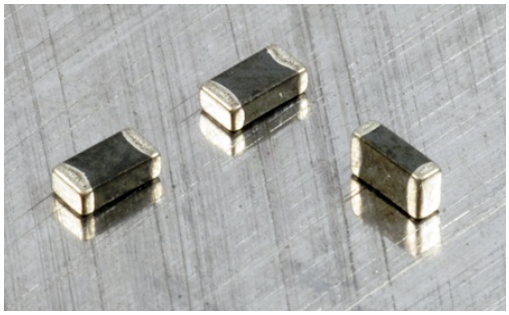
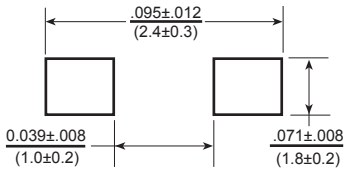
MLPCH12 High Current Multilayer Inductor

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)
MLPCH12-R24M-RC	0.24	20	3	.023	3600(4000)	3500(4200)
MLPCH12-R47M-RC	0.47	20	3	.037	2500(2900)	2600(3100)
MLPCH12-R68M-RC	0.68	20	3	.065	2500(2800)	2400(2800)
MLPCH12-1R0M-RC	1.0	20	3	.068	1500(1900)	2200(2600)
MLPCH12-1R5M-RC	1.5	20	3	.10	1500(1800)	1600(1900)
MLPCH12-2R2M-RC	2.2	20	3	.21	1000(1300)	1500(1800)

All specifications subject to change without notice.

Features

- High Saturation current up to 4.0A
- Expanded operating temp range
- Low DC Resistance
- Multilayer Ferrite Construction
- Suitable for pick and place

Electrical

Inductance Range: .24µH 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 RF Impedance Analyzer
DCR: HP4338B

Physical

Packaging: 3000 pieces per 7 inch reel
Marking: None