

# Multilayer Ceramic Capacitor

## Radial Leaded Type



RoHS  
Compliant



### Specifications:

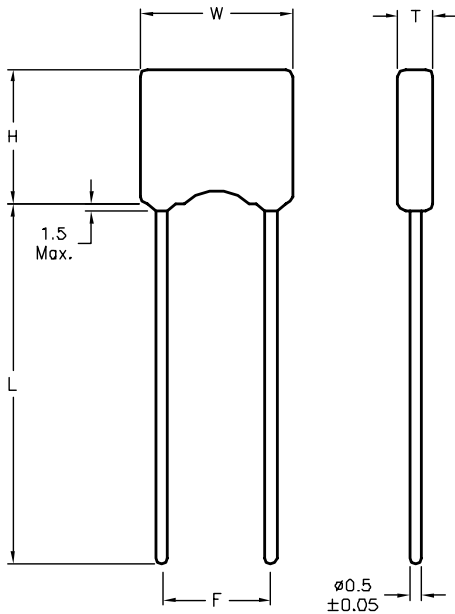
Dielectric Type	Stable Class II Dielectric
Electrical Properties	With predictable change of properties with temperature, voltage, frequency and time, this dielectric is ferro electric and offers higher capacitance ranges than class I
Application	Used as blocking coupling, By-passing frequency and discriminating elements
Operating Temperature	-55°C to +125°C
Temperature Coefficient	±15%
Capacitance (C)	Test Frequency : 1kHz Test Voltage : 1 ±0.2Vrms In the tolerance : J = ±5pF K = ±10pF M = ±20pF
Dissipation Factor (DF)	Test Frequency : 1kHz Test Voltage : 1 ±0.2Vrms 100V, 50V is < 2.5% 25V, 16V is < 3.5%
Insulation Resistance	Whichever is less : = 100GΩ or 1,000MΩ × μF

### Reliability:

Item	Test Methods	Test Specifications
Solderability	The lead wire of a capacitor shall be dipped into a rosin and then into molten solder of 235 ±5°C for 5 seconds, in both cases the depth of dipping is up to about 2.5 to 3mm from the root of lead wires.	Lead wire shall be soldered with uniformly coated on the Axial or Radial direction over 75% of the circumferential direction
Resistance to Soldering Heat	The lead wire shall be immersed into melted solder of 265 ±5°C, up to about 2.5 to 3mm from the main body and specified items shall be measured after leaving for 24 ±2 hours	Appearance : No marked defect Capacitance change : ±7.5%
Life test	Temperature = +125°C Time = 1,000 hrs Voltage = 1.5 × (rated voltage applied) Recovery Time + 24 ±2 hrs	Appearance : No marked defect Capacitance change : ±10% DF = ±1.5 × initial requirement IR = ±0.2.5 × initial requirement
Strength of lead	Fix the body of capacitor, apply a tensile weight gradually to each lead	Pull: Axial : >3kg Radial : >1Kg

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Size	Dimensions				
	W	T	H	F	L
MCR30W105K1HL5L-RH	7.6	3.8	7.6	5 ±0.5	5 ±0.5

Dimensions : Millimetres

### Part Number Table

Description	Part Number
Capacitor, 1µF, 50V, X7R, Radial	MCR30W105K1HL5L-RH

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