



103MSR102K
 GENERAL PURPOSE FILM
 Parts are RoHS compliant

ELECTRICAL SPECIFICATIONS

Capacitance: 0.01 uF
 Dissipation Factor: 0.01 Max at 1000 Hz and 25°C , 0.015 Max at 10 kHz and 25°C
 C
 Temperature Coefficient: 400 PPM/°C: -200 PPM/°C, 200 PPM/°C
 Ripple Current: at and
 ESR: 176.839 Ohms at 1 kHz and 20°C
 Self Inductance: 1 Nanohenries maximum per mm of pitch
 dvdt: 80 V/μs

Tolerance: -10 % , +10 %
 Temperature Range: -55°C to +125°C
 Above 85°C the rated (DC/AC) voltage must be derated at per 1.25%/°C
 WVDC: 1000 Volts DC
 SVDC: N/A Volts DC
 VAC: 250 Volts AC

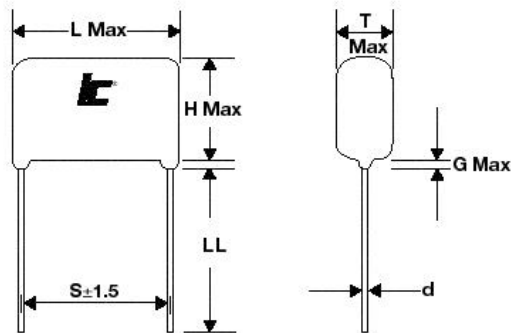
Terminal to Terminal Dielectric strength: 1.6 times the rated DC voltage when applied between the terminals for 2 seconds
 Terminal to case Dielectric strength: 0 VAC when applied between the terminals and case for 0

Insulation Resistance (Terminal to Terminal): 30000 MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C
 Insulation resistance (Terminal to Case): N/A Megohms MINIMUM after 0 Volts DC is applied for 0 seconds at 0
 Reliability: 3 FIT
 Load Life: 2000 hours at 85C with 125% of rated voltage
 Capacitance Change: <5% of initially measured value
 D.F. Change: <50% of maximum specified value
 I.R. Change: >50% of minimum specified value

PHYSICAL DIMENSIONS

Length (L): 14 mm, MAX mm
 Height (H): 11.5 mm, +/-MAX mm
 Thickness (T): 7 mm, +/-MAX mm

Lead Spacing (S): 10 mm, +/-1.5 mm
 Lead Diameter (d): 0.6 mm, +/-0.05 mm
 Lead Length (LL): 15mm, +/- MIN mm



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