



**103MSR400K**  
 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: 160 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: 400 Volts DC  
 SVDC: N/A Volts DC  
 VAC: 200 Volts AC

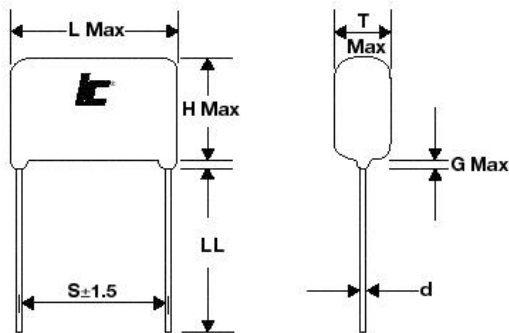
Terminal to Terminal Dielectric strength: 1.6 times the rated DC voltage when applied between the terminals for 2 seconds  
 Terminal to case Dielectric strength: 0 VAC when applied between the terminals and case for 0

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): 10.5 mm, MAX mm  
 Height (H): 9 mm, +/-MAX mm  
 Thickness (T): 5.5 mm, +/-MAX mm

Lead Spacing (S): 7.5 mm, +/-1.5 mm  
 Lead Diameter (d): 0.6 mm, +/-0.05 mm  
 Lead Length (LL): 15mm, +/- MIN mm



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