



## 683MSR100K

GENERAL PURPOSE FILM  
Parts are RoHS compliant

### ELECTRICAL SPECIFICATIONS

Capacitance: 0.068  $\mu$ F

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: - at - and -

Self Inductance: 1 Nanohenries maximum per mm of pitch

dvd: 35 V/ $\mu$ s

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: 100 Volts DC

SVDC: N/A Volts DC

VAC: 63 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): 15000 MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C

Reliability: Load Life: 2000 hours at 85°C with 125% of rated voltage

Capacitance Change:  $\leq 5\%$  of initially measured value

D.F. Change:  $\leq 200\%$  of maximum specified value

I.R. Change:  $> 50\%$  of minimum specified value

Insulation resistance (Terminal to Case): N/A Megohms MINIMUM after 0 Volts DC is applied for 0 seconds at 0

### PHYSICAL DIMENSIONS

Length (L): 10.5 mm, MAX mm

Height (H): 9.5 mm, +/-MAX mm

Thickness (T): 6 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

