

684PHC400K

HIGH FREQUENCY/ SWITCHING

Parts are RoHS compliant

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APPLICATIONS: industrial controls, Motor speed controls, Resonant circuits, induction heaters, Electronic ballasts, Audio, SMPS

ELECTRICAL SPECIFICATIONS

Capacitance: 0.68 μ F

Dissipation Factor: 0.0006 Max at 1000 Hz and 25°C

Temperature Coefficient: -200 PPM/°C: -100 PPM/°C, 100 PPM/°C

Ripple Current: 5 A at 100 kHz and 70°C

ESR: 8.9 milliOhms (typical) at 100 kHz and 25°C

Self Inductance: 1 Nanohenries maximum per mm of body length and lead length

dvdt: 55 V/ μ s

Tolerance: -10 % , +10 %

Temperature Range: -40°C to +85°C

Above 85°C the rated (DC/AC) voltage must be derated at per N/A°C

WVDC: 400 Volts DC

SVDC: 600 Volts DC

VAC: 250 Volts AC

Terminal to Terminal Dielectric strength: 2 times the rated DC voltage when applied between the terminals for 10 seconds

Terminal to case Dielectric strength: 3000 VAC when applied between the terminals and case for 60 seconds

Insulation Resistance (Terminal to Terminal): 30000 MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C

Reliability: 300 failures/billion component hours

Load Life: 100000/30000 hours at 70°C with 100% of rated voltage

Capacitance Change: $\leq$ 3% 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

Diameter (D): 12 mm, MAX mm

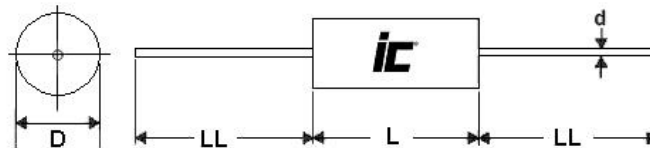
Length (L): 34 mm, MAX mm

Lead Finish: Matte Tin

Lead Spacing (S): mm, +/- mm

Lead Diameter (d): 0.8 mm, +/-0.05 mm

Lead Length (LL): 35mm, +/- MIN mm



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