



106PHC600K

HIGH FREQUENCY/ SWITCHING
Parts are RoHS compliant

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

ELECTRICAL SPECIFICATIONS

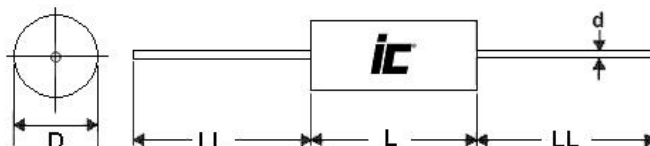
Capacitance: 10 μ F	Tolerance: -10 % , +10 %
Dissipation Factor: 0.001 Max at 1000 Hz and 25°C	Temperature Range: -40°C to +85°C
Temperature Coefficient: -200 PPM/°C: -100 PPM/°C, 100 PPM/°C	Above 85°C the rated (DC/AC) voltage must be derated at per N/A°C
Ripple Current: 14 A at 100 kHz and 70°C	WVDC: 600 Volts DC
ESR: 5.4 milliOhms (typical) at 100 kHz and 25°C	SVDC: 800 Volts DC
Self Inductance: 1 Nanohenries maximum per mm of body length and lead length	VAC: 330 Volts AC
dVdt: 50 V/ μ s	

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
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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: 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	

PHYSICAL DIMENSIONS

Diameter (D): 35 mm, MAX mm	Lead Spacing (S): mm, +/- mm
Length (L): 55 mm, MAX mm	Lead Diameter (d): 1.2 mm, +/-0.05 mm
Lead Finish: Matte Tin	Lead Length (LL): 35mm, +/- MIN mm



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