



305PHC600K

HIGH FREQUENCY/ SWITCHING
Parts are RoHS compliant

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

ELECTRICAL SPECIFICATIONS

Capacitance: 3 μF

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

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

Ripple Current: 10.5 A at 100 kHz and 70°C

ESR: 4.2 milliOhms (typical) at 100 kHz and 25°C

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

dvdt: 55 V/ μs

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: 600 Volts DC

SVDC: 800 Volts DC

VAC: 330 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

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): 24 mm, MAX mm

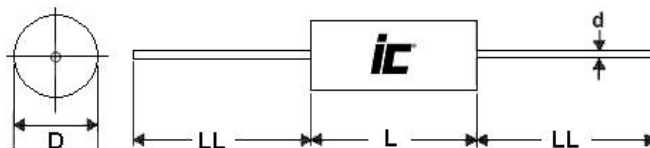
Length (L): 46 mm, MAX mm

Lead Finish: Matte Tin

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

Lead Diameter (d): 1 mm, +/-0.05 mm

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



2400 East Devon Avenue Suite 292 Des Plaines, IL 60018 (847) 675-1760 FAX (847) 673-2850

Illinois Capacitor (HK) Ltd., Tel: 85227930931, Fax: 85227930731, www.illcap.com.hk

© Copyright 2020 Illinois Capacitor. An affiliate of Cornell Dubilier, All Rights Reserved