

205PHC400K
HIGH FREQUENCY/ SWITCHING
Parts are RoHS compliant



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

ELECTRICAL SPECIFICATIONS

Capacitance: 2 uF
Dissipation Factor: 0.0006 Max at 1000 Hz and 25°C
Temperature Coefficient: -200 PPM/°C: -100 PPM/°C, 100 PPM/°C
Ripple Current: 9 A at 100 kHz and 70°C
ESR: 4.6 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: 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

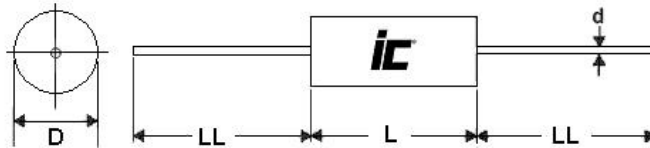
Insulation Resistance (Terminal to Terminal): 30000 MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C
Insulation resistance (Terminal to Case): N/A Megohms MINIMUM after 0 Volts DC is applied for 0 seconds at 0

Reliability: 300 failures/billion component hours
Load Life: 100000/30000 hours at 70°C with 100% of rated voltage
Capacitance Change: ≤3% of initially measured value
D.F. Change: ≤200% of maximum specified value
I.R. Change: >50% of minimum specified value

PHYSICAL DIMENSIONS

Diameter (D): 17.5 mm, MAX mm
Length (L): 34 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



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