

PART NUMBER: 505PHC850K



HIGH FREQUENCY/ SWITCHING

Parts are RoHS compliant

Date code when parts became RoHS: 14

FEATURES

Axial lead, self healing metallized polypropylene, high frequency, low impedance, electrolytic alternative

ELECTRICAL SPECIFICATIONS

Capacitance: 5 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: 14 A at 100 kHz and 70°C

ESR: 2.4 milliOhms (typical) at 100 kHz and 25°C

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

dvdt: 125 V/μs

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

Insulation Resistance (Terminal to Terminal): 30000

Megohm x Microfarads MINIMUM after Volts DC is applied for seconds at

Reliability: 300 failures/billion component hours

Load Life: 100000 hours at 0 with 100% of rated voltage

Capacitance Change: 0 of initially measured value

D.F. Change: 0 of maximum specified value

I.R. Change: 0 of minimum specified value

APPLICATIONS

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

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: 850 Volts DC

SVDC: 1200 Volts DC

VAC: 450 Volts AC

Terminal to case Dielectric strength: 3000 times the rated AC voltage when applied between the terminals for 60 seconds

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

PHYSICAL DIMENSIONS

Diameter (D): 38 mm, MAX mm

Length (L): 55 mm, MAX mm

Lead Finish: Matte Tin

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

Lead Diameter (d): 1.2 mm, +/-0.05 mm

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

