

# PART NUMBER: 105PHC850K

HIGH FREQUENCY/ SWITCHING

Parts are RoHS compliant

Date code when parts became RoHS: 26



## FEATURES

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

## ELECTRICAL SPECIFICATIONS

**Capacitance:** 1 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:** 10.5 A at 100 kHz and 70°C

**ESR:** 4.3 milliOhms (typical) at 100 kHz and 25°C

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

**dvdt:** 200 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):** 21.5 mm, MAX mm

**Length (L):** 46 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

