

# PART NUMBER: 222PWS202KD

## AXIAL LEAD METALLIZED FILM WITH FOIL ELECTRODES

## POLYPROPYLENE CAPACITORS

## PARTS ARE ROHS COMPLIANT

### FEATURES

Axial lead, self healing metallized polypropylene, high dvdt

### ELECTRICAL SPECIFICATIONS

**Capacitance:** 0.0022  $\mu$ F

**Dissipation Factor:** 0.0005 Max at 10 kHz and 25°C

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

**Ripple Current:** 0 at 0 and 0 **Self Inductance:** 1 Nanohenries

maximum per mm of body length and lead length

**dvdt:** 27000 V/ $\mu$ s

**Tolerance:** -10 %, +10 %

**Temperature Range:** -55°C to +105°C

Above 85°C the rated (DC/AC) voltage must be derated at per 1.25%/°C

**WVDC:** 2000 Volts DC

**SVDC:** N/A Volts DC

**VAC:** 500 Volts AC

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

**Terminal to case Dielectric strength:** 0 times the rated DC voltage when applied between the terminals for 0 seconds

**Insulation Resistance (Terminal to Terminal):** 100000 Megohms

MINIMUM after 100 Volts DC is applied for 60 seconds at 20°C

**Reliability:** 1 failures/billion component hours 1 FIT

**Load Life:** 2000 hours at 85°C with 125% of rated voltage

**Max Capacitance Change:**  $\leq$ 1% of initially measured value

**Dissipation Factor Change:** .001 of maximum specified value

**I.R. Change:** >50% of minimum specified value

**Insulation resistance (Terminal to Case):** N/A Megohms MINIMUM

after 100 Volts DC is applied for 60 seconds at 20°C

### PHYSICAL DIMENSIONS

**Diameter (D):** 12.5 mm +/- MAX mm

**Length (L):** 21 mm, +/- MAX mm

**Lead Finish:** Matte Tin

**Lead Wire Diameter (d):** 0.8 mm, +/- .05 mm

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

