



#### **Datasheet**

# RS 1000pF ±2.5% 160 V dc Axial Through Hole Polystyrene Film Capacitor 6mm

RS Stock 113-320



### **Specifications**

POLYSTRYRENE is a superior dielectric material with exceptionally high insulation resistance and low loss.

Aluminium foil electrodes are used and terminal wires are welded to them to ensure satisfactory performance at low voltage and high frequency.

LCR POLYSTYRENE FILM CAPACITORS offer:

Low temperature coefficient

Close capacitance tolerance

Extreme capacitance stabilty

Low power factor

High Q

High insulation resistance

Small physical size



#### LCR POLYSTRYRENE CAPACITORS

**ENGLISH** 

are recommended for use in I.F. transformers, tuned circuits, pulse networks, laboratory standards, timing circuits, analogue and digital computing circuits and many other applications where superior qualities are used to advantage.

#### **MARKING**

Wherever possible capacitance tolerance and working voltage are clearly indicated by black digital lettering, but on small components a letter code is used for tolerance.

**CHARACTERISTICS** 

Insulation Resistance

(after humidity cycle)

**Test Voltage** 

#### Code TYPE LCR (Standard Polystyrene) 1pF - F Capacitance 25pF - 200,000pF 2.5% - H Capacitance Tolerance +- 20%,10%,5% 5% - J +- 2.5% or +- 1pF min 10% - K Tolerances closer than 2.5% are available 20% - M Voltage (DC working) 30, 63, 160, 400, 630V 20% - M Temperature Range -40C to +85C **Voltage Letter Code** Temperature Coefficient N 150 +- 50 ppm/C 30V - Z Power Factor < 0.0005 160V - X Insulation Resistance >10,000,000 Mohm 400V - V (dry)

50,000 Mohm

All caps tested at 2.5

times working voltage

Capacitance Stability	
Capacitor Length	Long Term stabilty
10 mm and over	+- (0.2% + 0.4pF)
8 mm	+- (0.5% + 0.4pF)

Capacitor Length (mm)	Wire Diameter (mm)
8 mm	0.3
10 mm	0.5
over 10 mm	0.6

Capacitance Tolerance

630V - U

**Terminations** 

Tinned copper wire



#### Voltage Capacity Length||Diameter 30V 25-1,000 8.0 4.0 8.0 4.5 1,001-2,000 2,001-3,000 8.0 5.0 10.0 3,001-5,000 4.5 5,001-7,500 10.0 6.5 7,501-30,000 15.0 9.0 30,001-50,000 20.0 10.0 50,001-100,000 30.0 11.0 100,001-200,000 30.0 15.0 63V 25-500 8.0 4.0 501-750 5.0 8.0 751-1,000 8.0 5.5 10.0 6.0 1,001-2,200 2,201-5,000 10.0 6.0 5,001-6,800 10.0 7.0 6,801-10,000 15.0 8.0 10,001-15,000 15.0 10.0 15,001-40,000 20.0 15.0 40,001-100,000 30.0 15.0 160V 25-250 4.0 8.0 251-500 8.0 5.0 6.0 501-1,000 10.0 1,001-4,000 10.0 8.0 15.0 4,001-7,500 9.5 7,501-40,000 20.0 15.0 40,001-100,000 30.0 18.0 400V 25-100 8.0 4.0 101-470 10.0 6.0 10.0 8.0 471-1,000 1,001-2,200 10.0 9.0 15.0 12.0 2,201-5,000 15.0 5,001-15,000 20.0 20.0 15,001-50,000 30.0 50,001-100,000 40.0 30.0 630V 10.0 5.0 25-100 101-250 10.0 6.0 251-1,000 10.0 9.0 1,001-3,000 15.0 10.0 3,001-7,500 20.0 14.0 7,501-40,000 30.0 23.0

40,001-100,000

44.0

25.0

## **ENGLISH**

# Typical Capacitance Variation as a function of Temperature

