

ENGLISH

Datasheet

RS 4700pF ±2.5% 160 V dc Axial Through Hole Polystyrene Film Capacitor 9.5mm

RS Stock 113-364



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

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 TYPE LCR (Standard Polystyrene) Capacitance 25pF - 200,000pF **Capacitance Tolerance** +- 20%,10%,5% +- 2.5% or +- 1pF min Tolerances closer than 2.5% are available Voltage (DC working) 30, 63, 160, 400, 630V **Temperature Range** -40C to +85C Temperature Coefficient N 150 +- 50 ppm/C Power Factor < 0.0005 Insulation Resistance >10,000,000 Mohm (dry) Insulation Resistance 50,000 Mohm (after humidity cycle) All caps tested at 2.5 **Test Voltage** times working voltage

Capacitance StabilityCapacitor LengthLong Term stabilty10 mm and over+- (0.2% + 0.4pF)8 mm+- (0.5% + 0.4pF)	
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

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Capacitance Tolerance

Code

1pF - F

2.5% - H

5% - J

10% - K

20% - M

20% - M

Voltage Letter Code

30V - Z

160V - X

400V - V

630V - U

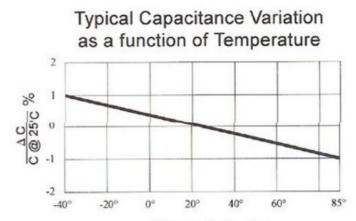
Terminations

Tinned copper wire

RS, Professionally Approved Products, gives you professional quality parts across all products categories. Our range has been testified by engineers as giving comparable quality to that of the leading brands without paying a premium price.



Voltage Capacity Length Diameter 30V 25-1,000 8.0 4.0 1,001-2,000 8.0 4.5 2,001-3,000 8.0 5.0 3,001-5,000 10.0 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 11.0 50,001-100,000 30.0 100,001-200,000 30.0 15.0 63V 25-500 8.0 4.0 501-750 8.0 5.0 751-1,000 8.0 5.5 1,001-2,200 10.0 6.0 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 8.0 4.0 251-500 8.0 5.0 501-1,000 10.0 6.0 1,001-4,000 10.0 8.0 15.0 9.5 4,001-7,500 20.0 15.0 7,501-40,000 40,001-100,000 30.0 18.0 400V 25-100 8.0 4.0 101-470 10.0 6.0 471-1,000 10.0 8.0 10.0 9.0 1,001-2,200 2,201-5,000 15.0 12.0 5,001-15,000 20.0 15.0 15,001-50,000 30.0 20.0 50,001-100,000 30.0 40.0 630V 10.0 25-100 5.0 101-250 10.0 6.0 251-1,000 10.0 9.0 10.0 1,001-3,000 15.0 3,001-7,500 20.0 14.0 7,501-40,000 23.0 30.0 40,001-100,000 44.0 25.0



Temperature °C

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