RoHS Compliant Manufacturing

FSC - POLYSTYRENE

APPLICATION

LCR Polystyrene 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.

LCR Polystyrene Film Capacitors offer:
Low Temperature Coefficient
Close capacitance tolerance
Extreme capacitance stability
Low power factor
High Q
High insulation resistane
Small physical size

DESCRIPTION

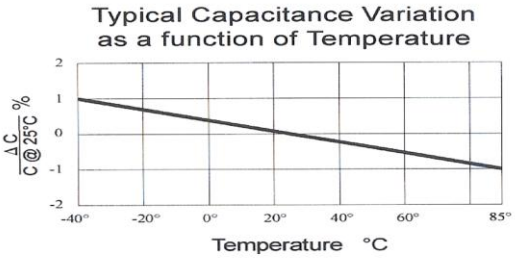
Polystyrene is a superior dielectric material with exceptionally high insulation resistane and low loss.

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

Marking

Wherever posiible capacitance, tolerance and working voltage are clearly indicated by b lack digital lettering, but on small components a letter code is used for tolerane and voltage (see overleaf)

SPECIFICATION	
Capacitance Range	5PF - 200,00pF
Capacitance Tolerance	±20%, ± 10%, ± 5% ± 2.5%, or ± 1pF
Voltage (DC working)	30, 63, 160, 400, 630V
Operating temperature range Temperature Coefficient	-40ºC to +85ºC N 150 ± 50 ppm/ºC
Power Factor	< 0.0005
Insulation Resistance (dry) Insulation Resistance (after humidity cycle)	> 10^6 MΩ >50,000 MΩ
Test Voltage	All caps tested at 2.5 times working voltage



Capacitance Tolerance Code	
1%	F
2.5%	H
5%	J
10%	K
20%	M

Voltage Letter code	
30 V	Z
160 V	X
400 V	V
630V	U

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

Terminations: Tinned copper Wire	
Capacitor Length (mm)	Wire Diameter (mm)
8 mm	0.3
10 mm	0.4
over 10 mm	0.6

Twin twisted 0.6 mm wires are used on capacitors above 50,000 pF.