



## 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 resistance
- Small physical size

### DESCRIPTION

Polystyrene 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 frequency.

#### 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 and voltage (see overleaf)

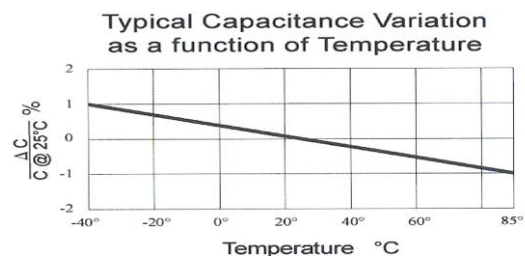
SPECIFICATION	
Capacitance Range	10pF - 200,00pF
Capacitance Tolerance	$\pm 20\%$ , $\pm 10\%$ , $\pm 5\%$ $\pm 2.5\%$ , or $\pm 1\text{pF}$
Voltage (DC working)	30, 63, 160, 400, 630V
Operating temperature range	$-40^{\circ}\text{C}$ to $+85^{\circ}\text{C}$
Temperature Coefficient	$N 150 \pm 50 \text{ ppm}/^{\circ}\text{C}$
Power Factor	$< 0.0005$
Insulation Resistance (dry)	$> 10^6 \text{ M}\Omega$
Insulation Resistance (after humidity cycle)	$> 50,000 \text{ M}\Omega$
Test Voltage	All caps tested at 2.5 times working voltage
Approvals	BS, EN, ISO 9001-2008

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	$\pm (0.2\% + 0.4\text{pF})$
8 mm	$\pm (0.5\% + 0.4\text{pF})$

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.

### LCR Capacitors EU Ltd

Unit 18 Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD

Tel: 01495 307070 Fax: 01495 306965 Email: [lrcapacitors@btinternet.com](mailto:lrcapacitors@btinternet.com)

Or Visit the Website: [www.lrcapacitors.co.uk](http://www.lrcapacitors.co.uk), [www.highvoltagecapacitors.co.uk](http://www.highvoltagecapacitors.co.uk)