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

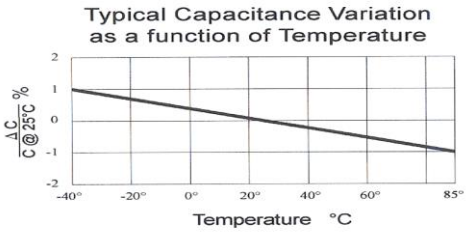
Polystyrene is a superior dielectric material with exceptionally high insulation resistane and low loss.

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	10pF - 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
Approvals	BS, EN, ISO 9001-2008



Capactitance 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.

LCR Capacitors EU Ltd
Unit 18 Rassau Industrial Estate, Rassau, Ebbw Vale, Gwent, NP23 5SD
Tel: 01495 307070 Fax: 01495 306965 Email: lcrcapacitors@btinternet.com
Or Visit the Website: www.lcrcapacitors.co.uk, www.highvoltagecapacitors.co.uk

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FSC SERIES STANDARD RANGE AND DIMENSIONS

Voltage	Capacitance pF	Length mm Nominal	Diameter mm Nominal
30 V	10 - 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	5.5
	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
63 V	10 - 500	8.0	4.0
	501 - 750	8.0	5.0
	751 - 1,000	10.0	5.5
	1,001 - 2,200	10.0	6.0
	2,201 - 5,000	10.0	8.0
	5,001 - 6,800	15.0	8.0
	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 - 100,00	30.0	15.0
160 V	10 - 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
	4,001 - 7,500	15.0	9.5
	7,501 - 40,000	20.0	15.0
	40,001 - 100,000	30.0	18.0
400 V	10 - 100	8.0	4.0
	101 - 470	10.0	6.0
	471 - 1,000	10.0	8.0
	1,001 - 2,000	10.0	9.0
	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	44.0	25.0
630 V	10 - 100	10.0	5.0
	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

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