



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, audio industries 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 insulation resistane
- Small physical size

DESCRIPTION

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

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

SPECIFICATION

Capacitance Range	47pF - 100nF
Capacitance Tolerance	+1%, +2%, +5% +10% (MIN 1.5pF)
Voltage (DC working)	63, 160, 250, 630V
Voltage (AC working)	40, 80, 125, 250V
Operating temperature range	-40°C to +85°C
Temperature Coefficient	-110 + 60ppm/°C
Power Factor	≤ 0.0005 @ 1 KHz All Values ≤ 0.0007 @ 100 KHz All Values ≤ 0.0010 @ 1 MKHz 47pF - 1nF
Insulation Resistance	> 105 MΩ
Test Voltage	All caps tested at 2 times working voltage
Approvals	BS, EN, ISO 9001-2008

DESCRIPTION

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).

Capacitance	Length mm	Diameter mm	Working Voltage	
				@ 50Hz
47pF - 200pF	12.9	5.0	630 V DC	250 V AC
201pF - 360pF	12.9	5.0	630 V DC	250 V AC
361pF - 560pF	12.9	4.5	630 V DC	250 V AC
561pF - 680pF	12.9	5.0	630 V DC	250 V AC
681pF - 750pF	12.9	5.0	630 V DC	250 V AC
751pF - 820pF	12.9	4.5	250 V DC	125 V AC
821pF - 910pF	12.9	4.5	250 V DC	125 V AC
911pF - 1n	12.9	4.5	250 V DC	125 V AC
1n1 - 1n6	12.9	5.0	160 V DC	80 V AC
1n61 - 2n7	12.9	5.0	160 V DC	80 V AC
2n71 - 3n9	17.0	5.0	160 V DC	80 V AC
3n91 - 6n2	17.0	5.0	160 V DC	80 V AC
6n21 - 7n5	17.0	5.5	160 V DC	80 V AC
7n51 - 8n2	17.0	6.0	160 V DC	80 V AC
8n21 - 10n	17.0	5.0	160 V DC	80 V AC
10n1 - 15n	17.0	5.5	63 V DC	40 V AC
15n1 - 18n	17.0	6.0	63 V DC	40 V AC
18n1 - 24n	17.0	6.5	63 V DC	40 V AC
24n1 - 30n	17.0	7.0	63 V DC	40 V AC
30n1 - 36n	17.0	7.5	63 V DC	40 V AC
36n1 - 39n	17.0	8.0	63 V DC	40 V AC
39n1 - 51n	17.0	10.0	63 V DC	40 V AC
51n1 - 68n	22.0	8.5	63 V DC	40 V AC
68n1 - 82n	22.0	9.5	63 V DC	40 V AC
82n1 -100n	22.0	10.0	63 V DC	40 V AC