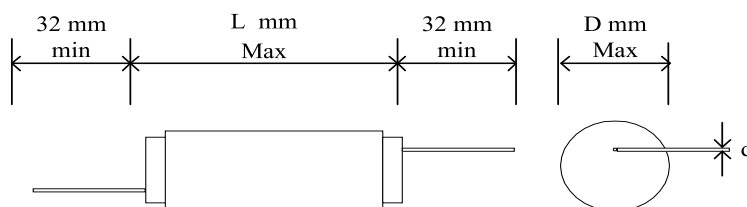


Designed as an inexpensive answer to the problem of flux removal by solvents, these capacitors have a coating which will resist the normal post soldering cleaning process. In laboratory and user tests, including MIL202 Method 215, the coating showed a satisfactory improvement in solvent resistance and enables commercial polystyrene capacitors to be specified where flux removal techniques have previously precluded their use.

Windings are selected from the standard 'HS' range and the coating adds about 1mm to the length and about 0.5mm to the diameter.



## SPECIFICATION

Capacitance Range	2p2 - 500n
Capacitance Tolerance	±1%, ± 2.5%, ± 5%, ± 10%, ±20%
Voltage (DC working)	30, 63, 160, 400, 630V
Operating temperature range	-40°C to +80°C
Temperature Coefficient	-150 ± 60 ppm/°C
Power Factor 1KHz > 1n0	≤ 0.001 for 30 and 63 V
Power Factor 1 MHz ≤ 1n0	≤ 0.0005 for 160, 400 and 630 V
Insulation Resistance ≤ 250nF (30, 63 V.D.C)	10 <sup>5</sup> MΩ 25,000 Ohm Farads
Insulation Resistance > 250nF (160, 400, 630 V.D.C)	10 <sup>6</sup> MΩ 250,000 Ohm Farads
Environmental Class	40/70/21
Test Voltage	At least 1.5 times working voltage NOT TO BE REPEATED
Approvals	BS, EN, ISO 9001-2008

Capacitance Stability: Of the order of 0.3% over 2 years under normal conditions of usage.

Long term drift is of the order of 0.005% per month at 20°C, 0.05% per month at 70°C

# HSC SERIES STANDARD RANGE AND DIMENSIONS

Volts DC	Capacitance pF	Length mm Nominal	Diameter mm Nominal	Wires mm
30 V	2p2 upto 470p	8.0	3.5	0.3
	470p - 1n0	8.0	4.0	0.3
	1n0 - 2n0	8.0	4.5	0.3
	2n0 - 3n3	8.0	5.25	0.3
	3n3 - 5n0	11.0	5.25	0.3
	5n0 - 7n0	11.0	6.0	0.3
	7n0 - 10n	11.0	7.25	0.3
	10n - 20n	16.0	9.0	0.4
	20n - 30n	21.0	9.0	0.5
	30n - 40n	21.0	9.5	0.5
	40n - 50n	21.0	10.5	0.5
	50n - 100n	29.0	11.5	0.5
	100n - 150n	29.0	13.5	0.5
	150n - 200n	29.0	15.0	0.5
	200n - 300n	35.0	16.0	0.6
	300n - 400n	35.0	18.0	0.6
400n - 500n	35.0	20.5	0.6	
63 V	2p2 upto 330p	8.0	3.5	0.3
	330p - 500p	8.0	4.0	0.3
	500p - 1n0	8.0	5.0	0.3
	1n0 - 1n5	8.0	6.0	0.3
	1n5 - 2n2	11.0	6.0	0.4
	2n2 - 4n7	11.0	7.5	0.4
	4n7 - 10n	16.0	8.0	0.4
	10n - 20n	16.0	9.5	0.4
	20n - 50n	21.0	11.0	0.5
	50n - 100n	29.0	12.0	0.5
	100n - 150n	29.0	14.0	0.5
	150n - 200n	29.0	15.5	0.5
	200n - 300n	35.0	16.5	0.6
	300n - 400n	35.0	18.5	0.6
	400n - 500n	35.0	21.0	0.6

Volts DC	Capacitance pF	Length mm Nominal	Diameter mm Nominal	Wires mm
400 V	2p2 upto 100p	8.0	4.0	0.3
	100p - 250p	8.0	4.5	0.3
	250p - 330p	8.0	5.5	0.3
	2p2 - 330p	11.0	5.0	0.4
	330p - 470p	11.0	6.0	0.4
	470p - 1n0	16.0	7.5	0.5
	1n0 - 2n0	21.0	9.5	0.6
	2n0 - 6n0	21.0	12.5	0.6
	6n0 - 20n	29.0	15.5	0.6
	20n - 50n	29.0	23.5	0.6*
630 V	50n - 100n	29.0	30.5	0.6*
	2p2 upto 50p	8.0	4.0	0.3
	50p - 120p	8.0	5.0	0.3
	120p - 200p	8.0	5.5	0.3
	2p2 - 150p	11.0	5.5	0.4
	150p - 250p	11.0	6.5	0.4
	250p - 500p	16.0	7.5	0.5
	500p - 1n0	21.0	8.5	0.6
	1n0 - 2n5	21.0	10.5	0.6
	2n5 - 10n	29.0	14.5	0.6
10n - 20n	29.0	18.5	0.6*	
20n - 50n	29.0	28.5	0.6*	
50n - 100n	29.0	35.5	0.6*	

