



**SURGE**  
Components Inc.

1016 Grand Boulevard  
Deer Park, NY 11729 • 516 595-1818 • FAX: 516 595-1283

Visit Us On The Web  
[www.surgecomponents.com](http://www.surgecomponents.com)

**SMD Series**

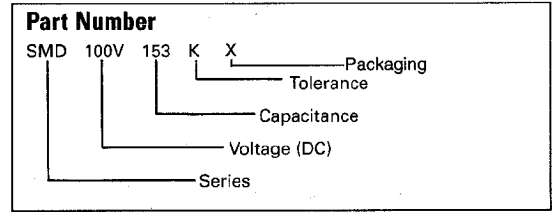
**EPOXY COATED, NON-INDUCTIVE, METALLIZED  
POLYPROPYLENE FILM CAPACITORS, RADIAL LEAD**

**FEATURES**

- HIGH RELIABILITY BECAUSE OF ITS EXCELLENT SELF-HEALING PERFORMANCE.
- DISSIPATION FACTOR IS NORMALLY LOW AND IS STABLE AGAINST HIGH FREQUENCY AND CHANGE OF TEMPERATURE.
- RECOMMENDED FOR HIGH FREQUENCY CIRCUITS LIKE S-CURVE COMPENSATING CIRCUIT.

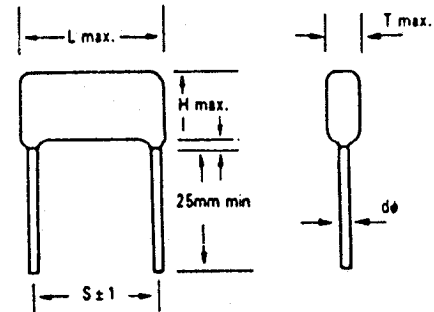
**SPECIFICATIONS**

<b>OPERATING TEMPERATURE</b>	-40°C TO +85°C
<b>RATED VOLTAGE (DC)</b>	100V, 250V, 400V, 630V
<b>CAPACITANCE RANGE</b>	0.01 TO 10.0 MFD
<b>CAPACITANCE TOLERANCE</b>	± 20% (M), ± 10% (K), ± 5% (J)
<b>INSULATION RESISTANCE</b>	C < 0.33 MFD. R ≥ 30,000 MEGOHM C ≥ 0.33 MFD. RC ≥ 10,000 MEGOHM X MFD
<b>DISSIPATION FACTOR</b>	≤ 0.002 (AT 1 KHZ) (Typical 0.001 max) ≤ 0.002 (AT 10 KHZ). FOR 0.01 < C ≤ 0.1 MFD ≤ 0.003 (AT 10 KHZ). FOR 0.1 < C ≤ 1.0 MFD
<b>DIELECTRIC STRENGTH</b>	150% OF RATED VOLTAGE FOR 5 SECONDS



**LEAD SPACING AND LEAD DIAMETER (UNIT: mm)**

L	10.0	10.5	13.0	18.0	18.5	26.0	32.0	36.0	42.0
S	7.5	7.5	10.0	15.0	15.0	22.5	27.5	32.5	37.5
dφ	0.6	0.6	0.6	0.8	0.8	0.8	0.8	0.8	1.0



- 2mm max. for L > 20mm
- 1.5mm max. for L ≤ 20mm

**STANDARD PRODUCTS AND CASE SIZE SIZE TABLE (UNIT: mm)**

VDC MFD	100 VDC			250 VDC			400 VDC			630 VDC		
	L	T	H	L	T	H	L	T	H	L	T	H
0.01	10.0	5.5	9.0	13.0	5.5	9.0	13.0	5.5	9.0	13.0	6.5	11.5
0.015	10.0	5.5	9.0	13.0	6.0	9.5	13.0	6.0	9.5	13.0	7.5	12.0
0.022	10.5	6.0	9.5	13.0	6.0	10.0	13.0	6.0	10.5	13.0	9.0	13.5
0.033	10.5	6.0	9.5	13.0	6.0	10.0	13.0	7.0	11.0	18.5	9.0	14.0
0.047	13.0	6.0	10.5	13.0	6.0	10.5	13.0	7.5	12.5	18.5	9.0	14.5
0.068	13.0	6.5	11.0	13.0	6.0	11.0	18.5	7.5	12.5	18.5	9.5	15.5
0.1	13.0	6.5	11.0	18.5	7.0	11.0	18.5	7.5	13.5	26.0	10.5	17.5
0.15	18.5	7.0	11.5	18.5	7.0	12.0	26.0	9.0	15.5	26.0	12.0	18.5
0.22	18.5	7.0	12.0	18.5	7.5	13.0	26.0	9.0	15.5	32.0	12.0	19.0
0.33	18.5	7.5	14.0	18.5	8.5	14.5	26.0	11.0	17.5	32.0	14.5	22.0
0.47	18.5	8.5	15.0	26.0	8.5	15.0	32.0	11.5	18.5	32.0	15.5	24.5
0.68	26.0	9.0	16.0	26.0	10.0	17.0	32.0	13.5	21.5	36.0	17.5	28.5
1.0	26.0	11.0	17.5	32.0	12.0	20.5	32.0	16.0	24.5	42.0	18.0	31.0
1.5	32.0	13.0	19.0	32.0	13.0	20.5	36.0	17.5	26.5	42.0	21.5	35.0
2.2	32.0	13.0	20.0	32.0	15.0	24.5	42.0	18.0	30.0	42.0	26.0	40.0
3.3	32.0	15.0	21.5	32.0	17.0	26.0	42.0	22.0	38.0			
4.7	36.0	17.0	24.0	36.0	19.5	28.0						
6.8	42.0	21.0	30.0	42.0	19.5	33.0						
10.0	42.0	24.0	33.0	42.0	22.0	38.0						