



SURGE
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SMD Series

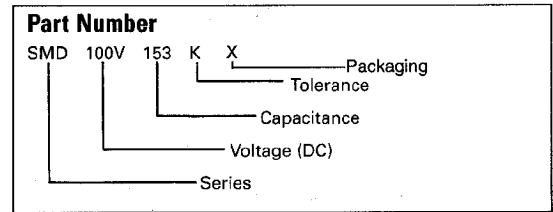
**EPOXY COATED, NON-INDUCTIVE, METALLIZED
POLYPROPYLENE FILM CAPACITORS, RADIAL LEAD**

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.

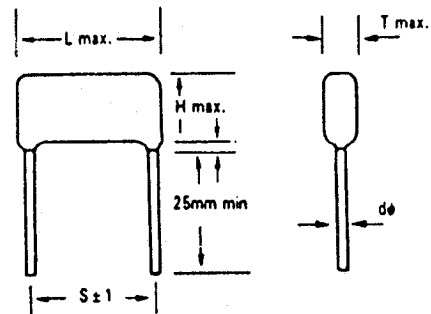
SPECIFICATIONS

OPERATING TEMPERATURE	-40°C TO +85°C
RATED VOLTAGE (DC)	100V, 250V, 400V, 630V
CAPACITANCE RANGE	0.01 TO 10.0 MFD
CAPACITANCE TOLERANCE	± 20% (M), ± 10% (K), ± 5% (J)
INSULATION RESISTANCE	C < 0.33 MFD. R ≥ 30,000 MEGOHM C ≥ 0.33 MFD. RC ≥ 10,000 MEGOHM X MFD
DISSIPATION FACTOR	≤ 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
DIELECTRIC STRENGTH	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
d φ	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						