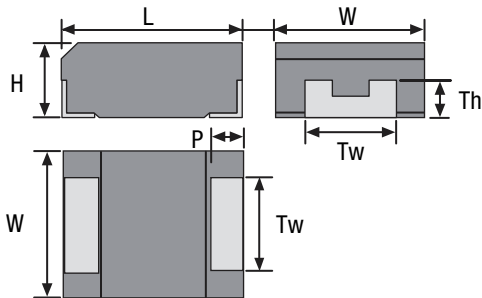


MOLDED CASES SMD – SURFACE MOUNT SN-PB OR SN PLATED – POLARIZED TYPES



DIMENSIONS (in mm)

Case code	L	W	H	P	Tw	Th min.
S	3.2±0.2	1.6±0.2	1.2±0.2	0.8±0.3	1.2±0.1	0.3
T	3.5±0.2	2.8±0.2	1.2±0.2	0.8±0.3	2.2±0.1	0.3
U	6.0±0.3	3.2±0.3	1.5±0.3	1.3±0.3	2.2±0.1	0.5
V	7.3±0.3	4.3±0.3	2.0±0.3	1.3±0.3	2.4±0.1	1.1



MARKING, PACKAGING, CONSTRUCTION: see general characteristics

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

DCTC3E - Low Profile	
Operating temperature	-55°C +125°C
Humidity	56 days
Capacitance range	1 µF - 330 µF
Tolerance	20%...10%
Voltage range	4 V...50 V
High surge current	N/A
MAXIMUM CAPACITANCE CHANGE	
-55°C	-10%
+85°C	+10%
+125°C	+15%
MAXIMUM DF	
+20°C	see table
-55°C	see table
+85°C	see table
+125°C	see table
MAXIMUM LEAKAGE CURRENT	
+20°C	see table
+85°C	see table
+125°C	see table
MAXIMUM ESR	
+20°C (100kHz)	see table
MAXIMUM REVERSE VOLTAGE	
+20°C	15% U_R
+85°C	5% U_R
+125°C	1% U_R
MAXIMUM SURGE VOLTAGE	
+85°C	1.3 x U_R
+125°C	1.3 x U_C

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

DCTC3E - Low Profile									
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Leakage Current			Maximum DF 100Hz				Max. ESR 100kHz +20°C (Ω)
		+20°C (µA)	+85°C (µA)	+125°C (µA)	-55°C (%)	+20°C (%)	+85°C (%)	+125°C (%)	
RATED VOLTAGE (+85°C) 4 V - CATEGORY VOLTAGE (+125°C) 2.5 V									
6.8	S	0.5	5	6.2	9	6	9	12	15.0
10	S	0.5	5	6.2	9	6	9	12	15.0
15	T	0.6	6	7.5	9	6	9	12	5.0
22	S	0.9	9	11	15	10	15	20	10.0
22	T	0.9	9	11	9	6	9	12	5.0
33	U	1.3	13	16.5	9	6	9	12	1.8
47	T	1.9	19	23.5	9	6	9	12	1.8
47	U	1.9	19	23.5	9	6	9	12	1.8
68	U	2.7	27	34	9	6	9	12	1.8
100	T	4.0	40	50	45	30	45	60	5.0
150	V	6.0	60	75	11	8	11	14	0.7
220	V	8.8	88	110	11	8	11	14	0.7
330	V	13.2	132	165	18	12	18	24	0.7
RATED VOLTAGE (+85°C) 6.3 V - CATEGORY VOLTAGE (+125°C) 4 V									
4.7	S	0.5	5	6.2	9	6	9	12	15.0
6.8	S	0.5	5	6.2	9	6	9	12	15.0
10	T	0.6	6	7.8	9	6	9	12	5.0
15	S	0.9	9	11	22.5	15	22.5	30	10.0
15	T	0.9	9	11	9	6	9	12	5.0
22	T	1.4	14	17.5	12	8	12	16	5.0
22	U	1.3	13	17.3	9	6	9	12	1.8
33	T	2.0	20	25	18	12	18	24	6.0
33	U	2.0	20	25	9	6	9	12	1.8
47	U	2.9	29	36	9	6	9	12	1.8
100	U	6.0	60	75	15	10	15	20	1.8
100	V	6.0	60	75	11	8	11	14	0.7
150	V	9.0	90	112	11	8	11	14	0.7
220	V	13.2	132	165	18	12	18	20	0.7
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V									
3.3	S	0.5	5	6.2	9	6	9	12	15.0
4.7	S	0.5	5	6.2	9	6	9	12	15.0
6.8	S	0.7	7	8.7	15	10	15	20	15.0
6.8	T	0.6	6.8	8.5	9	6	9	12	5.0
10	S	1.0	10	12.5	15	10	15	20	15.0
10	T	1.0	10	12.5	9	6	9	12	5.0
15	T	1.5	15	18.7	12	8	12	16	5.0
15	U	1.5	15	18.7	9	6	9	12	1.8
22	T	2.2	22	27.5	18	12	18	24	8.0
22	U	2.2	22	27.5	9	6	9	12	1.8
33	U	3.3	33	41.2	9	6	9	12	1.8
33	V	3.3	33	41.2	9	6	9	12	0.7
47	U	4.7	47	58.7	15	10	15	20	2.2
47	V	4.7	47	58.7	9	6	9	12	0.7
68	U	6.8	68	85	15	10	15	20	1.8
68	V	6.8	68	85	9	6	9	12	0.7
100	V	10	100	125	11	8	11	14	0.7
150	V	15	150	187.5	12	8	12	16	0.7
RATED VOLTAGE (+85°C) 16 V - CATEGORY VOLTAGE (+125°C) 10 V									
2.2	S	0.5	5	6.2	9	6	9	12	15.0
4.7	T	0.7	7.5	9.4	9	6	9	12	5.0
10	T	1.6	16	20	12	8	12	16	8.0
10	U	1.6	16	20	9	6	9	12	1.8
15	U	2.4	24	30	9	6	9	12	1.8
22	U	3.6	36	45	15	10	15	20	3.0
33	U	5.3	53	66.2	18	12	18	24	3.0
47	V	7.5	75	94	9	6	9	12	0.7
100	V	16	160	200	18	12	18	24	0.7
RATED VOLTAGE (+85°C) 20 V - CATEGORY VOLTAGE (+125°C) 13 V									
1.0	S	0.5	5	6.2	9	6	9	12	18.0
1.5	S	0.5	5	6.2	9	6	9	12	15.0
3.3	T	0.7	6.6	8.2	9	6	9	12	5.0
6.8	U	1.3	13.6	17	9	6	9	12	1.9
10	U	2	20	25	9	6	9	12	1.8
22	V	4.4	44	55	9	6	9	12	0.7
33	V	6.6	66	82.5	12	8	12	16	0.7

MOLDED CASES SMD – SURFACE MOUNT SN-PB OR SN PLATED – POLARIZED TYPES

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

DCTC3E - Low Profile									
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Leakage Current			Maximum DF 100Hz				Max. ESR 100kHz +20°C (Ω)
		+20°C (µA)	+85°C (µA)	+125°C (µA)	-55°C (%)	+20°C (%)	+85°C (%)	+125°C (%)	
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V									
22	V	5.5	55	68.7	9	6	9	12	0.7
RATED VOLTAGE (+85°C) 35 V - CATEGORY VOLTAGE (+125°C) 23 V									
10	V	3.5	35	43.7	9	5	9	12	2.0
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 33 V									
1	V	0.5	5	6.2	6	4	6	8	6.0