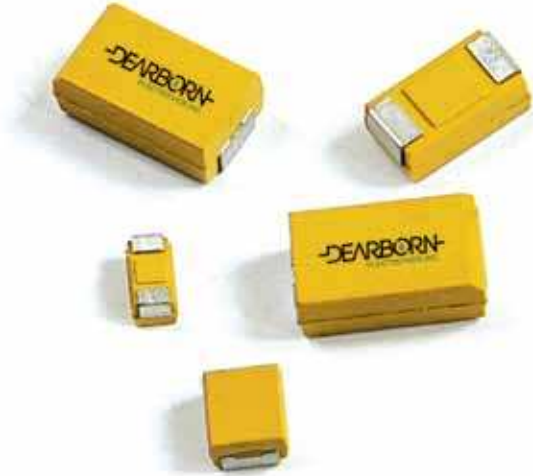
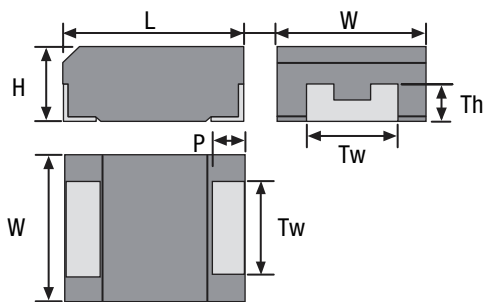


MOLDED CASES SMD – SURFACE MOUNT SN-PB OR SN PLATED – POLARIZED TYPES



DIMENSIONS (in mm)

Case code	L	W	H	P	Tw	Th min.
V	7.3±0.3	4.3±0.3	2.0±0.3	1.3±0.3	2.4±0.1	1.0
D	7.3±0.3	4.3±0.3	2.8±0.3	1.3±0.3	2.4±0.1	1.0
E	7.3±0.3	4.3±0.3	4.0±0.3	1.3±0.3	2.4±0.1	1.0



MARKING, PACKAGING, CONSTRUCTION: see general characteristics

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

	DCTC4 ESR
Operating temperature	-55°C +125°C
Humidity	56 days
Capacitance range	4.7 µF - 1000 µF
Tolerance	20%...10%
Voltage range	4 V...50 V
High surge current	100% - 4 cycles
MAXIMUM CAPACITANCE CHANGE	
-55°C	-10%
+85°C	+10%
+125°C	+12%
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

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

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

DCTC4 ESR - LOW ESR								
Capacitance 1kHz +20°C (µF)	Case Code	Maximum Leakage Current			Maximum DF 100Hz		Max. ESR 100kHz +20°C (mΩ)	Max. I rms 100kHz +20°C (A)
		+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								
1000	E	40	400	500	12	12	70	1.5
RATED VOLTAGE (+85°C) 6.3 V - CATEGORY VOLTAGE (+125°C) 4 V								
68	D	4.3	42.8	53.6	4	4	175	0.9
100	V	6.3	63.0	78.8	8	8	150	0.9
150	E	9.5	94.5	118.1	6	6	100	1.3
220	D	13.9	138.6	173.3	8	8	100	1.2
220	E	13.9	138.6	173.3	8	8	100	1.3
330	D	20.8	207.9	259.9	8	8	100	1.2
330	E	20.8	207.9	259.9	8	8	100	1.3
470	D	29.6	296.1	370.1	12	12	125	1.1
470	E	29.6	296.1	370.1	10	10	65	1.6
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V								
47	D	4.7	47	58.8	4	4	200	0.9
68	V	6.8	68	85	6	6	140	0.9
68	D	6.8	68	85	6	6	150	1.0
68	E	6.8	68	85	4	4	150	1.0
100	V	10	100	125	8	8	150	0.9
100	D	10	100	125	8	8	100	1.2
100	E	10	100	125	6	6	100	1.3
150	D	15	150	187.5	8	8	100	1.2
150	E	15	150	187.5	8	8	100	1.3
220	V	22	220	275	12	12	150	0.9
220	D	22	220	275	8	8	125	1.1
220	E	22	220	275	8	8	100	1.3
330	D	33	330	412.5	10	10	125	1.1
330	E	33	330	412.5	10	10	60	1.7
RATED VOLTAGE (+85°C) 16 V - CATEGORY VOLTAGE (+125°C) 10 V								
33	D	5.3	52.8	66	4	4	225	0.8
47	D	7.5	75	94	6	6	150	1.0
68	D	10.9	109	136	6	6	150	1.0
100	D	16	160	200	8	8	125	1.1
100	E	16	160	200	8	8	100	1.3
150	E	24	240	300	8	8	100	1.3
RATED VOLTAGE (+85°C) 20 V - CATEGORY VOLTAGE (+125°C) 13 V								
15	D	3	30	37.5	4	4	275	0.7
22	D	4.4	44	55	4	4	225	0.8
33	D	6.6	66	82.5	6	6	200	0.9
47	D	9.4	94	117.5	6	6	175	0.9
47	E	9.4	94	117.5	4	4	150	1.0
68	D	13.6	136	170	8	8	150	1.0
68	E	13.6	136	170	6	6	150	1.0
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V								
15	D	3.8	37.5	46.9	6	6	275	0.7
15	E	3.8	37.5	46.9	4	4	200	0.9
22	D	5.5	55.0	68.8	6	6	200	0.9
22	E	5.5	55.0	68.8	4	4	225	0.9
33	D	8.3	82.5	103.2	6	6	300	0.7
33	E	8.3	82.5	103.2	4	4	175	1.0
47	E	11.8	117.5	146.9	6	6	200	0.9
68	E	17.0	170.0	212.5	8	8	200	0.9
RATED VOLTAGE (+85°C) 35 V - CATEGORY VOLTAGE (+125°C) 23 V								
6.8	E	2.4	23.8	29.8	4	4	300	0.7
10	D	3.5	35.0	43.8	6	6	300	0.7
10	E	3.5	35.0	43.8	4	4	250	0.8
15	D	5.3	52.5	65.7	6	6	300	0.7
15	E	5.3	52.5	65.7	6	6	225	0.9
22	D	7.7	77.0	96.3	6	6	300	0.7
22	E	7.7	77.0	96.3	6	6	275	0.8
33	E	11.6	115.5	144.4	6	6	250	0.8
47	E	16.5	164.5	205.6	8	8	300	0.7
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 32 V								
4.7	D	2.4	23.5	29.4	6	6	300	0.7
4.7	E	2.4	23.5	29.4	4	4	300	0.7
6.8	D	3.4	34.0	42.5	8	8	300	0.7
15	E	7.5	75.0	93.7	8	8	300	0.7