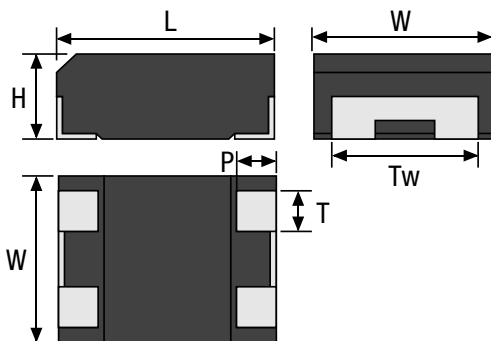


MOLDED CASES SMD –SURFACE MOUNT POLARIZED TYPES



DIMENSIONS (in mm)

Case code	L -0.1 +0.5	W -0.1 +0.5	H -0.1 +0.5	P -0.3 +0.3	Tw -0.3 +0.3	T -0.3 +0.3
C	11	9	4.5	1.5	7	2
D	11	12.5	5.5	1.5	10.5	3



MARKING, PACKAGING, CONSTRUCTION: see general characteristics

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

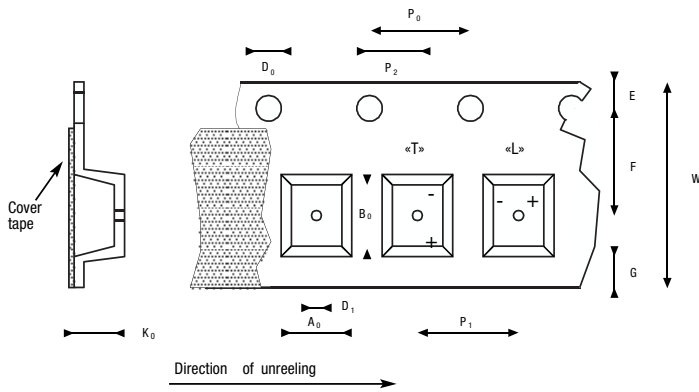
	DCTC23
Operating temp.	-55°C +125°C
Humidity	56 days
Capacitance range	15 µF - 1000 µF
Tolerance	20%...10%
Voltage range	6.3 V...63 V
High surge current	1 million cycles
MAXIMUM CAPACITANCE CHANGE	
-55°C	-10%
+85°C	+8%
+125°C	+12%
MAXIMUM DF	
+20°C (100Hz)	see table
-55°C (100Hz)	= lim 20°C
+85°C (100Hz)	= lim 20°C
+125°C (100Hz)	= lim 20°C
MAXIMUM LEAKAGE CURRENT	
+20°C (under U_R)	see table
+85°C (under U_R)	see table
+125°C (under U_R)	see table
MAXIMUM IMPEDANCE	
+20°C (100kHz)	see table
MAXIMUM REVERSE VOLTAGE	
+20°C	10% 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

DCTC23						
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Leakage Current			Max. DF 100Hz +20°C (%)	Max. Imped. 100kHz +20°C (Ω)
		+20°C (µA)	+85°C (µA)	+125°C (µA)		
RATED VOLTAGE (+85°C) 6.3 V - CATEGORY VOLTAGE (+125°C) 4 V						
330	C	20.8	208	259	10	1
390	C	24.5	245	307	10	1
470	C	29.6	296	370	10	1
680	D	42.8	428	535	10	0.5
820	D	51.6	516	645	10	0.5
1000	D	63	630	787	10	0.5
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V						
220	C	22	220	275	10	1
270	C	27	270	337	10	1
390	D	39	390	487	10	0.5
470	D	47	470	587	10	0.5
560	D	56	560	700	10	0.5
RATED VOLTAGE (+85°C) 16 V - CATEGORY VOLTAGE (+125°C) 10 V						
150	C	24	240	300	10	1
180	C	28.8	288	360	10	1
270	D	43.2	432	540	10	0.5
330	D	52.8	528	660	10	0.5
RATED VOLTAGE (+85°C) 20 V - CATEGORY VOLTAGE (+125°C) 13 V						
100	C	20	200	250	10	1
120	C	24	240	300	10	1
150	C	30	300	375	10	1
180	D	36	360	450	10	0.5
220	D	44	440	550	10	0.5
270	D	54	540	675	10	0.5
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V						
33	C	8.2	82.5	103	8	1
47	C	11.7	117	146	8	1
68	C	17.0	170	212	8	1
82	C	20.5	205	256	10	1
100	D	25.0	250	312	10	0.5
120	D	30.0	300	375	10	0.5
150	D	37.5	375	468	10	0.5
RATED VOLTAGE (+85°C) 40 V - CATEGORY VOLTAGE (+125°C) 25 V						
33	C	13.2	132	165	8	1
39	C	15.6	156	195	8	1
47	D	18.8	188	235	10	0.5
68	D	27.2	272	340	10	0.5
82	D	32.8	328	410	10	0.5
100	D	40.0	400	500	10	0.5
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 32V						
22	C	11.0	110	137	8	1
27	C	13.5	135	168	8	1
47	D	23.5	235	293	10	0.5
56	D	28.0	280	350	10	0.5
RATED VOLTAGE (+85°C) 63 V - CATEGORY VOLTAGE (+125°C) 40 V						
15	C	9.4	94.5	118	8	1
18	C	11.3	113	141	8	1
33	D	20.7	207	259	10	0.5
39	D	24.5	245	307	10	0.5

Notes: See notes of DCTC21.

TAPE AND REEL PACKAGING (PER IEC 286-3)



TAPE WIDTH, MAXIMUM PER REEL, COMPONENTS POSITION AND PITCH (P₁)

Case code	Tape width (mm)	Quantity per Reel	Position	Pitch P ₁ (mm)
C	24.0	800	T	12.0
D	24.0	400	L	16.0

Note: The minimum quantity per reel is 50% of the above mentioned one.

COMPONENT POSITION

T = Transversal (+ termination away from the sprocket hole)

L = Longitudinal (+ termination in the direction of unreeling)

TAPE DIMENSIONS (in mm)

W	E	F	P ₀	D ₀	D ₁	G	P ₁	P ₂
±0.3	±0.1	±0.05	±0.1	+0.1 -0	±0.1	min.	±0.1	±0.05
24.0	1.75	11.5	4.0	1.5	1.5	0.75	12.0	2.0
24.0	1.75	11.5	4.0	1.5	1.5	0.75	16.0	2.0

Notes: A₀ B₀ K₀ are defined by component size
Reel diameter: 330 mm (nominal)
Diameter of central hole: 12.8 mm