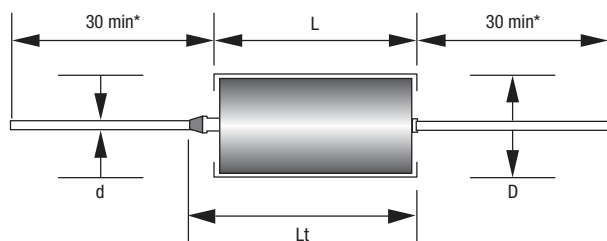


HERMETICALLY SEALED METAL CASES AXIAL LEADS POLARIZED TYPES



DIMENSIONS (in mm)

Case code	Dimensions with insulating sleeve			
	Lt. max	L. max	D. max	d +10% -0.05
A	10.2	8.1	3.6	0.5
B	15.0	12.8	4.9	0.5
C	20.5	18.2	7.5	0.6
D	24.0	20.8	9.1	0.6



* 23 mm for capacitors delivered on tape.

MARKING, PACKAGING, CONSTRUCTION: see general characteristics

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

	DCTS1	DCTS1M
Operating temperature	-55°C +125°C	-55°C +125°C
Humidity	56 days	56 days
Capacitance range	0.1 μ F - 330 μ F	0.1 μ F - 330 μ F
Tolerance	20%...10%	20%...10%
Voltage range	6.3 V...125 V	6.3 V...100 V
High surge current	no	3 cycles-100%
MAXIMUM CAPACITANCE CHANGE		
-55°C	-10%	-10%
+85°C	+12%	+8%
+125°C	+15%	+12%
MAXIMUM DF		
+20°C	see table	see table
-55°C	1.5 x lim 20°C	= lim 20°C
+85°C	1.5 x lim 20°C	= lim 20°C
+125°C	2.0 x lim 20°C	= lim 20°C
MAXIMUM LEAKAGE CURRENT		
+20°C	see table	see table
+85°C	0.1 x $C_R U_R$	20 x lim 20°C
+125°C	0.125 x $C_R U_R$	25 x lim 20°C
MAXIMUM IMPEDANCE		
(20°C): case A	10 Ω	10 Ω
(20°C): case B	5 Ω	5 Ω
(20°C): case C	2 Ω	2 Ω
(20°C): case D	1 Ω	1 Ω
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	1.3 x U_R
+125°C	1.3 x U_C	1.3 x U_C

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

		DCTS1				DCTS1M			
Capacitance 100Hz +20°C (μF)	Case Code	Maximum Leakage Current			Max. DF +20°C (%)	Maximum Leakage Current			Max. DF +25°C (%)
		+20°C (μA)	+85°C (μA)	+125°C (μA)		+25°C (μA)	+85°C (μA)	+125°C (μA)	
RATED VOLTAGE (+85°C) 6.3 V (6 V FOR DCTS1M) - CATEGORY VOLTAGE (+125°C) 4 V									
5.6	A	1	3.5	4.4	6	0.3	6	7.5	4
6.8	A	1	4.2	5.3	6	0.3	6	7.5	6
47	B	2.9	29	36	6	1.5	24	30	6
56	B	3.5	35	44	6	1.5	24	30	6
120	C	7.5	75	94	6	-	-	-	-
150	C	9.4	94	117	6	4.5	90	113	8
180	C	11.3	113	141	6	5.5	110	138	8
270	D	17	170	212	6	6.5	130	163	8
330	D	20.8	208	260	8	7.5	150	188	8
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V									
3.9	A	1	3.9	4.8	6	0.3	6	7.5	4
4.7	A	1	4.7	5.8	6	0.4	7	8.8	4
27	B	2.7	27	34	6	2	40	50	6
33	B	3.3	33	41	6	2.5	50	63	6
39	B	3.9	39	49	6	2.5	50	63	6
82	C	8.2	82	102	6	4	80	100	6
100	C	10	100	125	6	5	100	125	8
120	C	12	120	150	6	6	120	150	8
180	D	18	180	225	6	9	180	226	8
220	D	22	220	275	8	10	200	250	8
RATED VOLTAGE (+85°C) 16 V (15 V FOR DCTS1M) - CATEGORY VOLTAGE (+125°C) 10 V									
1.8	A	1	2.8	3.6	6	-	-	-	-
2.2	A	1	3.5	4.4	6	-	-	-	-
2.7	A	1	4.3	5.4	6	0.3	6	7.5	4
3.3	A	1	5.2	6.6	6	0.4	8	10	4
12	B	1.9	19	24	6	-	-	-	-
15	B	2.4	24	30	6	-	-	-	-
18	B	2.8	28	35	6	2	35	44	6
22	B	3.5	35	43.7	6	2	40	50	6
39	C	6.2	62	77.5	6	-	-	-	-
47	C	7.5	75	93.7	6	-	-	-	-
56	C	8.9	89	111	6	4	80	100	6
68	C	10.8	108	135	6	5	100	125	6
82	D	13.1	131	163	6	-	-	-	-
100	D	16	160	200	6	-	-	-	-
120	D	19.2	192	240	8	9	180	226	8
150	D	24	240	300	8	10	200	250	8
RATED VOLTAGE (+85°C) 20 V - CATEGORY VOLTAGE (+125°C) 13 V									
1.2	A	-	-	-	-	0.3	6	7.5	4
1.5	A	-	-	-	-	0.3	6	7.5	4
1.8	A	-	-	-	-	0.3	6	7.5	4
2.2	A	-	-	-	-	0.4	8	10	4
8.2	B	-	-	-	-	1	20	25	6
10	B	-	-	-	-	1.5	30	38	6
12	B	-	-	-	-	1.8	35	44	6
15	B	-	-	-	-	2	40	50	6
27	C	-	-	-	-	2.5	50	63	6
33	C	-	-	-	-	3.5	70	88	6
39	C	-	-	-	-	4	80	100	6
47	C	-	-	-	-	4.5	90	113	6
56	D	-	-	-	-	5.5	110	138	6
68	D	-	-	-	-	7	140	175	6
82	D	-	-	-	-	8	160	200	6
100	D	-	-	-	-	10	200	250	8
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V									
1.2	A	1	3	3.7	6	-	-	-	-
1.5	A	1	3.7	4.6	6	-	-	-	-
8.2	B	2	20	25	6	-	-	-	-
10	B	2.5	25	31.2	6	-	-	-	-
27	C	6.7	67	84	6	-	-	-	-
33	C	8.2	82	102	6	-	-	-	-
56	D	14	140	175	6	-	-	-	-
68	D	17	170	212	6	-	-	-	-

HERMETICALLY SEALED METAL CASES

AXIAL LEADS – POLARIZED TYPES

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

		DCTS1				DCTS1M			
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Leakage Current			Max. DF +20°C (%)	Maximum Leakage Current			Max. DF +25°C (%)
		+20°C (µA)	+85°C (µA)	+125°C (µA)		+25°C (µA)	+85°C (µA)	+125°C (µA)	
RATED VOLTAGE (+85°C) 40 V (35 V FOR DCTS1M) - CATEGORY VOLTAGE (+125°C) 25 V (23 V FOR DCTS1M)									
0.1	A	1	1	1	6	-	-	-	-
0.12	A	1	1	1	6	-	-	-	-
0.15	A	1	1	1	6	-	-	-	-
0.18	A	1	1	1	6	-	-	-	-
0.22	A	1	1	1.1	6	-	-	-	-
0.27	A	1	1	1.3	6	-	-	-	-
0.33	A	1	1.3	1.6	6	-	-	-	-
0.39	A	1	1.5	1.9	6	-	-	-	-
0.47	A	1	1.8	2.3	6	-	-	-	-
0.56	A	1	2.2	2.8	6	-	-	-	-
0.68	A	1	2.7	3.4	6	-	-	-	-
0.82	A	1	3.2	4.1	6	-	-	-	-
1	A	1	4	5	6	-	-	-	-
1.2	A	1	4.8	6	6	-	-	-	-
1.5	B	1	6	7.5	6	-	-	-	-
1.8	B	1	7.2	9	6	-	-	-	-
2.2	B	1	8.8	11	6	-	-	-	-
2.7	B	1	10	13.5	6	-	-	-	-
3.3	B	1.3	13	16.2	6	-	-	-	-
3.9	B	1.5	15	18.7	6	-	-	-	-
4.7	B	1.8	18	22.5	6	-	-	-	-
5.6	B	2.2	22	27.5	6	1.3	25	32	4
6.8	B	2.7	27	33.7	6	1.5	30	38	6
8.2	C	3.2	32	40	6	-	-	-	-
10	C	4	40	50	6	-	-	-	-
12	C	4.8	48	60	6	-	-	-	-
15	C	6	60	75	6	-	-	-	-
18	C	7.2	72	90	6	-	-	-	-
22	C	8.8	88	110	6	4	80	100	6
27	D	10.8	108	135	6	4.5	90	113	6
33	D	13.2	132	165	6	5.5	110	138	6
39	D	15.6	156	195	6	7	140	175	6
47	D	18.8	188	235	6	8	160	200	6
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 32 V									
0.1	A	1	1	1	6	0.3	5	6.3	2
0.12	A	1	1	1	6	0.3	5	6.3	2
0.15	A	1	1	1	6	0.3	5	6.3	2
0.18	A	1	1	1.1	6	0.3	5	6.3	2
0.22	A	1	1.1	1.3	6	0.3	5	6.3	2
0.27	A	1	1.3	1.6	6	0.3	5	6.3	2
0.33	A	1	1.6	2	6	0.3	5	6.3	2
0.39	A	1	1.9	2.4	6	0.3	5	6.3	2
0.47	A	1	2.3	2.9	6	0.3	5	6.3	2
0.56	A	1	2.8	3.5	6	0.3	5	6.3	2
0.68	A	1	3.4	4.2	6	0.3	5	6.3	2
0.82	A	1	4.1	5.1	6	0.3	5	6.3	2
1	A	1	5	6.2	6	0.4	8	10	2
1.2	B	1	6	7.5	6	0.4	9	11	4
1.5	B	1	7.5	9.3	6	0.6	12	15	4
1.8	B	1	9	11.2	6	0.7	14	18	4
2.2	B	1.1	11	13.7	6	0.8	17	22	4
2.7	B	1.3	13	16.2	6	1	20	25	4
3.3	B	1.6	16	20	6	1.2	25	32	4
3.9	B	1.9	19	24	6	1.5	30	38	4
4.7	B	2.3	23	29	6	1.7	35	44	4
5.6	C	2.8	28	35	6	2.2	45	56	4
6.8	C	3.4	34	42	6	2.2	45	56	6
8.2	C	4.1	41	51	6	2.5	50	63	6
10	C	5	50	62	6	2.5	50	63	6
12	C	6	60	75	6	3	60	75	6
15	C	7.5	75	93	6	4	80	100	6
18	C	9	90	112	6	4.5	90	113	6
22	D	11	110	137	6	5.5	110	138	6

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

		DCTS1				DCTS1M			
Capacitance 100Hz +20°C (μF)	Case Code	Maximum Leakage Current			Max. DF +20°C (%)	Maximum Leakage Current			Max. DF +25°C (%)
		+20°C (μA)	+85°C (μA)	+125°C (μA)		+25°C (μA)	+85°C (μA)	+125°C (μA)	
RATED VOLTAGE (+85°C) 63 V - CATEGORY VOLTAGE (+125°C) 40 V									
0.1	A	1	1	1	6	-	-	-	-
0.12	A	1	1	1	6	-	-	-	-
0.15	A	1	1	1.1	6	-	-	-	-
0.18	A	1	1.1	1.4	6	-	-	-	-
0.22	A	1	1.3	1.7	6	-	-	-	-
0.27	A	1	1.7	2.1	6	-	-	-	-
0.33	A	1	2	2.5	6	-	-	-	-
0.39	A	1	2.4	3	6	-	-	-	-
0.47	A	1	2.9	3.7	6	-	-	-	-
0.56	A	1	3.5	4.4	6	-	-	-	-
0.68	A	1	4.2	5.3	6	-	-	-	-
0.82	B	1	5.1	6.4	6	-	-	-	-
1	B	1	6.3	7.8	6	-	-	-	-
1.2	B	1	7.5	9.4	6	-	-	-	-
1.5	B	1	9.4	11.8	6	-	-	-	-
1.8	B	1.1	11	13.7	6	-	-	-	-
2.2	B	1.3	13	16.2	6	-	-	-	-
2.7	B	1.7	17	21.2	6	-	-	-	-
3.3	B	2	20	25	6	-	-	-	-
3.9	B	2.4	24	30	6	-	-	-	-
4.7	C	2.9	29	37	6	-	-	-	-
5.6	C	3.5	35	44	6	-	-	-	-
6.8	C	4.2	42	53	6	-	-	-	-
8.2	C	5.1	51	64	6	-	-	-	-
10	C	6.3	63	78	6	-	-	-	-
12	D	7.5	75	94	6	-	-	-	-
15	D	9.4	94	118	6	-	-	-	-
18	D	11.3	113	141	6	-	-	-	-
22	D	13.8	138	173	6	-	-	-	-
RATED VOLTAGE (+85°C) 80 V (75 V FOR DCTS1M) - CATEGORY VOLTAGE (+125°C) 50 V									
0.1	A	1	1	1	6	0.3	5	6.3	2
0.12	A	1	1	1.2	6	0.3	5	6.3	2
0.15	A	1	1.2	1.5	6	0.3	5	6.3	2
0.18	A	1	1.4	1.8	6	0.3	5	6.3	2
0.22	A	1	1.7	2.2	6	0.3	5	6.3	2
0.27	A	1	2.1	2.7	6	0.3	5	6.3	2
0.33	A	1	2.6	3.3	6	0.3	5	6.3	2
0.39	A	1	3.1	3.9	6	0.3	5	6.3	2
0.47	A	1	3.7	4.7	6	0.3	5	6.3	2
0.56	A	1	4.4	5.6	6	0.3	5	6.3	2
0.68	A	1	5.4	6.8	6	0.3	5	6.3	2
0.82	B	1	6.5	8.2	6	0.3	5	6.3	2
1	B	1	8	10	6	0.3	5	6.3	2
1.2	B	1	9.6	12	6	0.3	5	6.3	4
1.5	B	1.2	12	15	6	0.6	10	13	4
1.8	B	1.4	14	18	6	0.7	10	13	4
2.2	B	1.7	17	22	6	0.8	15	19	4
2.7	B	2.1	21	27	6	1	15	19	4
3.3	B	2.6	26	33	6	1.2	20	25	4
3.9	B	3.1	31	39	6	1.5	20	25	4
4.7	C	3.7	37	47	6	3	60	75	4
5.6	C	4.4	44	56	6	3	60	75	4
6.8	C	5.4	54	68	6	5	100	125	6
8.2	C	6.5	65	82	6	5	100	125	6
10	C	8	80	100	6	5	100	125	6
12	D	9.6	96	120	6	5	100	125	6
15	D	12	120	150	6	7	140	175	6

HERMETICALLY SEALED METAL CASES

AXIAL LEADS – POLARIZED TYPES

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

		DCTS1				DCTS1M			
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Leakage Current			Max. DF +20°C (%)	Maximum Leakage Current			Max. DF +25°C (%)
		+20°C (µA)	+85°C (µA)	+125°C (µA)		+25°C (µA)	+85°C (µA)	+125°C (µA)	
RATED VOLTAGE (+85°C) 100 V - CATEGORY VOLTAGE (+125°C) 63 V									
0.1	A	1	1	1.2	6	0.3	5	6.3	2
0.12	A	1	1.2	1.5	6	0.3	5	6.3	2
0.15	A	1	1.5	1.8	6	0.3	5	6.3	2
0.18	A	1	1.8	2.2	6	0.3	5	6.3	2
0.22	A	1	2.2	2.7	6	0.3	5	6.3	2
0.27	A	1	2.7	3.3	6	0.3	5	6.3	2
0.33	A	1	3.3	4.1	6	0.3	5	6.3	2
0.39	A	1	3.9	4.8	6	0.3	5	6.3	2
0.47	A	1	4.7	5.8	6	0.3	5	6.3	2
0.56	A	1	5.6	7	6	0.3	5	6.3	2
0.68	B	1	6.8	8.5	6	0.3	5	6.3	2
0.82	B	1	8.2	10	6	0.4	5	6.3	2
1	B	1	10	12	6	0.5	5	6.3	2
1.2	B	1.2	12	15	6	0.5	5	6.3	4
1.5	B	1.5	15	18	6	0.7	10	13	4
1.8	B	1.8	18	22	6	0.7	10	13	4
2.2	B	2.2	22	27	6	0.9	15	19	4
2.7	B	2.7	27	33	6	1.1	15	19	4
3.3	C	3.3	33	41	6	1.5	30	38	6
3.9	C	3.9	39	48	6	1.5	30	38	6
4.7	C	4.7	47	58	6	2.5	50	63	6
5.6	C	5.6	56	70	6	2.5	50	63	6
6.8	C	6.8	68	85	6	2.5	50	63	6
8.2	D	8.2	82	102	6	-	-	-	-
10	D	10	100	125	6	-	-	-	-
RATED VOLTAGE (+85°C) 125 V - CATEGORY VOLTAGE (+125°C) 80 V									
0.1	A	1	1.2	1.5	6	-	-	-	-
0.12	A	1	1.5	1.8	6	-	-	-	-
0.15	A	1	1.8	2.3	6	-	-	-	-
0.18	A	1	2.2	2.8	6	-	-	-	-
0.22	A	1	2.7	3.4	6	-	-	-	-
0.27	A	1	3.3	4.2	6	-	-	-	-
0.33	A	1	4.1	5.1	6	-	-	-	-
0.39	B	1	4.8	6	6	-	-	-	-
0.47	B	1	5.8	7.3	6	-	-	-	-
0.56	B	1	7	8.7	6	-	-	-	-
0.68	B	1	8.5	10	6	-	-	-	-
0.82	B	1	10	12	6	-	-	-	-
1	B	1.2	12	15	6	-	-	-	-
1.2	B	1.5	15	18	6	-	-	-	-
1.5	B	1.8	18	23	6	-	-	-	-
1.8	B	2.2	22	28	6	-	-	-	-
2.2	B	2.7	27	34	6	-	-	-	-
2.7	C	3.3	33	42	6	-	-	-	-
3.3	C	4.1	41	51	6	-	-	-	-
3.9	C	4.8	48	60	6	-	-	-	-
4.7	C	5.8	58	73	6	-	-	-	-
5.6	C	7	70	87	6	-	-	-	-
6.8	C	8.5	85	106	6	-	-	-	-
8.2	D	10.2	102	128	6	-	-	-	-
10	D	12.5	125	156	6	-	-	-	-