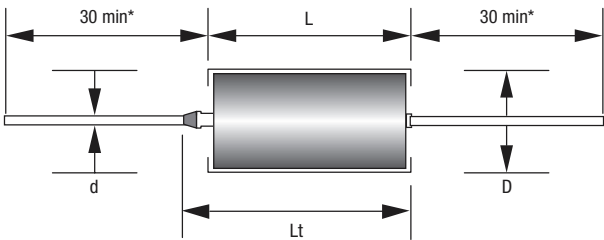


HERMETICALLY SEALED METAL CASES
AXIAL LEADS – POLARIZED TYPES



DIMENSIONS (in mm)

Case code	Dimensions with insulating sleeve			
	Lt. max	L. max	D. max	d +10% -0.05
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

	DCTS21	DCTS21M	DCTS21E
Operating temp.	-55°C +125°C	-55°C +125°C	-55°C +125°C
Humidity	56 days	56 days	56 days
Capacitance range	5.6 µF - 330 µF	5.6 µF - 330 µF	22 µF - 1000 µF
Tolerance	20%...10%	20%...10%	20%...10%
Voltage range	6.3 V...50 V	6.3 V...50 V	6.3 V...50 V
High surge current	1 million cycles	3 cycles-100%	1 million cycles
MAXIMUM CAPACITANCE CHANGE			
-55°C	-10%	-10%	-10%
+85°C	+8%	+8%	+8%
+125°C	+12%	+12%	+12%
MAXIMUM DF			
+20°C	see table	see table	see table
-55°C	= 2 x lim 20°C	= 2 x lim 20°C	= 2 x lim 20°C
+85°C	= 1.5 x lim 20°C	= 1.5 x lim 20°C	= 1.5 x lim 20°C
+125°C	= 1.5 x lim 20°C	= 1.5 x lim 20°C	= 1.5 x lim 20°C
MAXIMUM LEAKAGE CURRENT			
+20°C	see table	see table	see table
+85°C	0.1 x C _R U _R	20 x lim 20°C	0.1 x C _R U _R
+125°C	0.125 x C _R U _R	25 x lim 20°C	0.125 x C _R U _R
MAXIMUM ESR			
+20°C (100kHz)	see table	see table	see table
MAXIMUM RIPPLE CURRENT			
+20°C (1kHz)	see table	see table	see table
+20°C (100kHz)	see table	see table	see table
MAXIMUM REVERSE VOLTAGE			
+20°C	15% U _R	15% U _R	15% U _R
+85°C	5% U _R	5% U _R	5% U _R
+125°C	1% U _R	1% U _R	1% U _R
MAXIMUM SURGE VOLTAGE			
+85°C	1.3 x U _R	1.3 x U _R	1.3 x U _R
+125°C	1.3 x U _C	1.3 x U _C	1.3 x U _C

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

		DCTS21					DCTS21M				
Capacitance 100Hz +20°C (μF)	Case Code	Max. Leak. Current +20°C (μA)	Max. DF 1 kHz +20°C (%)	Max. ESR 100kHz +20°C (mΩ)	Max. I rms 1kHz +20°C (A)	Max. I rms 100kHz +20°C (A)	Max. Leak. Current +25°C (μA)	Max. DF +25°C (%)	Max. ESR 100kHz +25°C (mΩ)	Max. I rms 1kHz +25°C (A)	Max. I rms 100kHz +25°C (A)
RATED VOLTAGE (+85°C) 6.3 V (6 V FOR DCTS21M) - CATEGORY VOLTAGE (+125°C) 4 V											
120	C	7.6	8	70	2.5	3.2	-	-	-	-	-
150	C	9.4	10	65	2	3.3	4.5	10	65	2	3.3
180	C	-	-	-	-	-	5.5	10	60	2.4	3.4
270	D	17	10	50	3.4	4.1	6.5	10	50	3.4	4.1
330	D	20.8	12	45	3.8	4.3	7.5	12	45	3.8	4.3
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V											
82	C	8.2	8	85	1.8	2.9	4	8	85	1.8	2.9
100	C	10	8	75	2.2	3	5	8	75	2.2	3
120	C	-	-	-	-	-	6	8	70	2.5	3.2
180	D	18	8	60	3.4	3.7	9	8	60	3.4	3.7
220	D	22	10	55	3.4	3.9	10	10	55	3.4	3.9
RATED VOLTAGE (+85°C) 16 V (15 V FOR DCTS21M) - CATEGORY VOLTAGE (+125°C) 10 V											
56	C	8.9	6	100	1.8	2.6	4	6	100	1.8	2.6
68	C	10.8	6	95	2.2	2.7	5	6	95	2.2	2.7
120	D	19.2	8	70	2.8	3.5	9	8	70	2.8	3.5
150	D	24	8	65	3.1	3.6	10	8	65	3.1	3.6
RATED VOLTAGE (+85°C) 20 V - CATEGORY VOLTAGE (+125°C) 13 V											
27	C	-	-	-	-	-	2.5	5	145	1.2	2.2
33	C	-	-	-	-	-	3.5	5	130	1.4	2.3
39	C	7.8	5	120	1.7	2.4	4	5	120	1.7	2.4
47	C	9.4	6	110	1.8	2.5	4.5	6	110	1.8	2.5
56	D	-	-	-	-	-	5.5	6	100	2.2	2.9
68	D	-	-	-	-	-	7	6	95	2.4	3
82	D	16.4	6	85	2.5	3.1	8	6	85	2.5	3.1
100	D	20	8	75	2.5	3.3	10	8	75	2.5	3.3
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V											
27	C	6.7	5	145	1.2	2.2	-	-	-	-	-
33	C	8.2	5	130	1.4	2.3	-	-	-	-	-
56	D	14	6	100	2.2	2.9	-	-	-	-	-
68	D	17	6	95	2.4	3	-	-	-	-	-
RATED VOLTAGE (+85°C) 35 V (or 40V) (35 V FOR DCTS21M) - CATEGORY VOLTAGE (+125°C) 23 V (or 25 V)											
22	C	7.7	4	160	1.5	2.1	4	4	160	1.5	2.1
27	D	9.5	4	145	1.9	2.4	4.5	4	145	1.9	2.4
33	D	11.6	5	130	1.9	2.5	5.5	5	130	1.9	2.5
39	D	13.7	5	120	2	2.6	7	5	120	2	2.6
47	D	16.5	5	110	2.2	2.7	8	5	110	2.2	2.7
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 32 V											
5.6	C	2.8	3	300	0.6	1.5	2.2	3	300	0.6	1.5
6.8	C	3.4	3	275	0.7	1.6	2.2	3	275	0.7	1.6
8.2	C	4.1	3	250	0.9	1.6	2.5	3	250	0.9	1.6
10	C	5	3	230	1.1	1.7	2.5	3	230	1.1	1.7
12	C	6	3	210	1.3	1.8	3	3	210	1.3	1.8
15	C	7.5	3	190	1.4	1.9	4	3	190	1.4	1.9
18	C	9	4	175	1.4	2.0	4.5	4	175	1.4	2.0
22	D	11	4	160	1.7	2.3	5.5	4	160	1.7	2.3