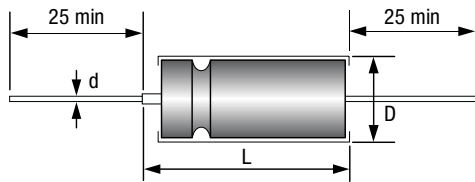


HERMETICALLY SEALED TANTALUM CASES AXIAL LEADS – POLARIZED TYPES



DIMENSIONS WITH INSULATING SLEEVE (in mm)

Case code	L Max.	D Max.	d ^{+10%} _{-0.05}
A	18	5.6	0.6
B	23	7.4	0.6
C	26	10.1	0.6
D	34	10.1	0.6



MARKING, PACKAGING, CONSTRUCTION: see general characteristics

ELECTRICAL AND ENVIRONMENTAL CHARACTERISTICS

	DCT79	DCT79E
Operating temperature	-55°C +125°C	-55°C +125°C
Humidity	56 days	56 days
Capacitance range	1.7 µF - 1200 µF	5.6 µF - 2200 µF
Tolerance	20%...10%	20%...10%
Voltage range	6 V...125 V	6 V...150 V
MAXIMUM CAPACITANCE CHANGE		
-55°C	see table	see table
+85°C	see table	see table
+125°C	see table	see table
MAXIMUM DF		
+20°C	see table	see table
+85°C	= lim 20°C	= lim 20°C
+125°C	= lim 20°C	= lim 20°C
MAXIMUM IMPEDANCE		
-55°C (100Hz)	see table	see table
MAXIMUM LEAKAGE CURRENT		
+20°C	see table	see table
+85°C	see table	see table
+125°C	= lim +85°C	= lim +85°C
MAXIMUM RIPPLE CURRENT		
+85°C (40kHz)	see table	see table
MAXIMUM REVERSE VOLTAGE		
+20°C	3 V	3 V
+85°C	3 V	3 V
+125°C	3 V	3 V
MAXIMUM SURGE VOLTAGE		
+85°C	1.15 x U _R	1.15 x U _R
+125°C	1.15 x U _C	1.15 x U _C

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

DCT79 / DCT79 SMD									
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Capacitance Change			Max. DF +20°C (%)	Max. Imped. 100Hz -55°C (Ω)	Maximum Leakage Current		Max. I rms 40kHz +85°C (mA)
		-55°C (%)	+85°C (%)	+125°C (%)			+20°C (µA)	+85°C (µA)	
RATED VOLTAGE (+85°C) 6 V - 6.3 V - CATEGORY VOLTAGE (+125°C) 4 V									
30	A	-40	+10	+12	9	100	1	2	820
68	A	-40	+14	+16	15	60	1	2	960
140	B	-40	+14	+16	21	40	1	3	1200
220	B	-44	+16	+18	36	30	1	6.5	1370
270	B	-44	+17	+20	41	25	1	6.5	1375
330	C	-44	+14	+16	36	20	2	7.9	1800
560	C	-64	+17.5	+20	50	25	2	13	1900
1000	D	-80	+25	+25	68	22	3	14	2388
1200	D	-80	+25	+25	86	20	3	14	2388
RATED VOLTAGE (+85°C) 8 V - CATEGORY VOLTAGE (+125°C) 5 V									
25	A	-40	+10.5	+12	7.5	100	1	2	820
56	A	-40	+14	+16	14	59	1	2	900
120	B	-44	+17.5	+20	20	50	1	2	1230
220	B	-44	+16	+18	37	30	1	7	1370
290	C	-64	+17.5	+20	34	25	2	6	1770
430	C	-64	+17.5	+20	46	25	2	14	1825
850	D	-80	+25	+25	60	22	3	16	2456
RATED VOLTAGE (+85°C) 10 V - CATEGORY VOLTAGE (+125°C) 6.3 V									
20	A	-32	+10.5	+12	6	175	1	2	820
47	A	-36	+14	+16	13	100	1	2	855
100	B	-36	+14	+16	15	60	1	4	1200
150	B	-32	+14	+16	28	45	1	7	1271
180	B	-35	+14	+16	29	40	1	7	1365
250	C	-40	+14	+16	30	30	2	10	1720
390	C	-64	+17.5	+20	44	25	2	15	1800
680	D	-80	+25	+25	42	20	3	16	2487
750	D	-80	+25	+25	50	23	3	16	2487
820	D	-80	+25	+25	53	22	3	16	2360
RATED VOLTAGE (+85°C) 15 V - 16 V - CATEGORY VOLTAGE (+125°C) 10 V									
15	A	-24	+10.5	+12	5	155	1	2	780
33	A	-28	+14	+16	10	90	1	2	820
70	B	-28	+14	+16	13	75	1	4	1150
120	B	-28	+14	+16	18	50	1	7	1450
170	C	-32	+14	+16	25	35	2	10	1480
220	C	-41	+13	+15	21	40	2	6	1490
270	C	-56	+17.5	+20	32	30	2	14	1740
330	C	-58	+18	+20	40	30	2	14	1760
470	D	-75	+25	+25	33	24	3	18	2100
540	D	-80	+25	+25	40	23	3	18	2300
560	D	-80	+25	+25	36	23	3	18	2300
RATED VOLTAGE (+85°C) 25 V - CATEGORY VOLTAGE (+125°C) 16 V									
10	A	-16	+8	+9	4	220	1	2	715
22	A	-20	+10	+12	6.6	140	1	2	825
50	B	-28	+13	+15	11	70	1	2	1130
100	B	-28	+13	+15	15	50	1	9	1435
120	C	-32	+13	+15	21	38	2	6	1450
180	C	-48	+13	+15	26	32	2	13	1700
330	D	-60	+25	+25	28	27	3	20	2000
350	D	-64	+25	+25	35	24	3	20	2246
390	D	-68	+25	+25	32	24	3	20	2025
560	D	-65	+25	+30	46	15	9	36	2040
RATED VOLTAGE (+85°C) 30 V - CATEGORY VOLTAGE (+125°C) 20 V									
8	A	-16	+8	+12	4	275	1	2	640
15	A	-20	+10	+12	5	175	1	2	780
40	B	-24	+10.5	+12	10	65	1	5	1120
68	B	-24	+13	+15	13	60	1	8	1285
100	C	-28	+10.5	+12	17	40	2	12	1477
150	C	-48	+13	+15	23	35	2	12	1525
300	D	-60	+25	+25	30	25	3	20	2100
RATED VOLTAGE (+85°C) 40 V - CATEGORY VOLTAGE (+125°C) 25 V									
12	A	-24	+8	+10	6	234	1	2	450
56	B	-28	+13	+15	14	78	1	9	1100
100	C	-40	+13	+15	18	48	2	17	1450
220	D	-55	+23	+23	22	27	3	22	1900

HERMETICALLY SEALED TANTALUM CASES

AXIAL LEADS – POLARIZED TYPES

STANDARD RATINGS – ELECTRICAL CHARACTERISTICS

DCT79 / DCT79 SMD									
Capacitance 100Hz +20°C (µF)	Case Code	Maximum Capacitance Change			Max. DF +20°C (%)	Max. Imped. 100Hz -55°C (Ω)	Maximum Leakage Current		Max. I rms 40kHz +85°C (mA)
		-55°C (%)	+85°C (%)	+125°C (%)			+20°C (µA)	+85°C (µA)	
RATED VOLTAGE (+85°C) 50 V - CATEGORY VOLTAGE (+125°C) 30 V									
5	A	-16	+5	+6	3	400	1	2	580
10	A	-20	+8	+9	4	250	1	2	715
25	B	-20	+10.5	+12	8	95	1	5	1065
47	B	-24	+13	+15	11	70	1	9	1215
60	C	-16	+10.5	+12	12	45	2	12	1335
82	C	-32	+13	+15	15	45	2	10	1460
160	D	-50	+23	+23	17	27	3	22	2040
RATED VOLTAGE (+85°C) 60 V - 63 V - CATEGORY VOLTAGE (+125°C) 40 V									
4	A	-16	+5	+6	2.8	550	1	2	525
8.2	A	-20	+8	+9	4	275	1	2	625
20	B	-16	+10.5	+12	+7	105	1	5	1026
39	B	-24	+10	+12	10	90	1	9	1185
50	C	-16	+10.5	+12	10	50	2	12	1341
68	C	-30	+10.5	+12	13	50	2	10	1393
140	D	-40	+20	+20	16	28	3	22	1990
150	D	-40	+20	+20	17	27	3	22	1865
RATED VOLTAGE (+85°C) 75 V - 80 V - CATEGORY VOLTAGE (+125°C) 50 V									
3.5	A	-16	+5	+6	2.5	650	1	2	525
6.8	A	-20	+8	+9	3	300	1	2	610
15	B	-16	+8	+9	6	150	1	5	1000
33	B	-24	+10	+12	10	90	1	9	1079
40	C	-16	+10.5	+12	9	60	2	12	1293
56	C	-28	+10.5	+15	11	60	2	10	1396
68	C	-30	+14	+15	13	50	2	10	1522
100	D	-35	+20	+20	12	36	9	36	1500
110	D	-35	+20	+20	11	29	3	24	1990
120	D	-36	+20	+20	12	28	3	24	1914
150	D	-48	+21	+22	17	30	9	36	1914
RATED VOLTAGE (+85°C) 100 V - CATEGORY VOLTAGE (+125°C) 65 V									
2.5	A	-16	+7	+8	2	950	1	2	505
4.7	A	-16	+7	+8	3	500	1	2	565
11	B	-16	+8	+8	5	200	1	4	835
22	B	-16	+7	+8	7.5	100	1	9	1065
30	C	-16	+8	+8	7	80	2	12	1240
33	C	-16	+8	+8	7	93	2	10	1200
39	C	-16	+8	+8	8	90	2	10	1282
43	C	-20	+8	+8	8	70	2	10	1389
47	C	-20	+7	+8	8	70	2	10	1389
68	D	-24	+15	+15	8	42	3	26	1859
82	D	-24	+15	+15	10	39	3	24	1859
86	D	-24	+15	+15	10	30	3	24	1859
RATED VOLTAGE (+85°C) 125 V - CATEGORY VOLTAGE (+125°C) 85 V									
1.7	A	-16	+7	+8	2	1250	1	2	415
2.2	A	-16	+7	+8	2	1250	1	2	452
2.7	A	-16	+7	+8	3	780	1	2	452
3.3	A	-16	+7	+8	3	600	1	2	495
3.6	A	-16	+7	+8	2.7	600	1	2	520
3.9	A	-16	+7	+8	3.5	557	1	2	495
9	B	-16	+7	+8	5	240	1	5	755
14	B	-16	+7	+8	6	167	1	7	1050
15	B	-16	+7	+8	6	167	1	7	1050
18	C	-16	+7	+8	5	129	2	9	1130
25	C	-16	+7	+8	6	93	2	10	1335
27	C	-16	+7	+8	6	106	2	13	1282
56	D	-25	+15	+15	6	32	3	28	1859