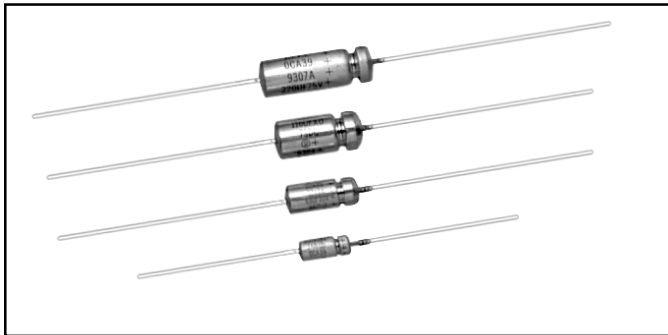




Wet Tantalum Capacitors

Gelled-Electrolyte Sintered Anode TANTALEX® Capacitors Hermetically-Sealed with True Glass-to-Tantalum Seal



PERFORMANCE CHARACTERISTICS

Operating Temperature: - 55°C to + 85°C and with voltage derating to two-thirds the + 85°C rating at + 125°C. Capable of + 175°C operation at reduced voltage. Use of Type 135D capacitors for high temperature applications is recommended.

Capacitance Tolerance: At 120 Hz, + 25°C. $\pm 20\%$ standard. $\pm 10\%$, $\pm 5\%$ available as special.

DC Leakage Current (DCL Max.):

At + 25°C, + 85°C and + 125°C: Leakage current shall not exceed the values listed in the Standard Ratings Tables.

Life Test: Capacitors are capable of withstanding a 2000 hour life test at a temperature of + 85°C or + 125°C at the applicable rated DC working voltage.

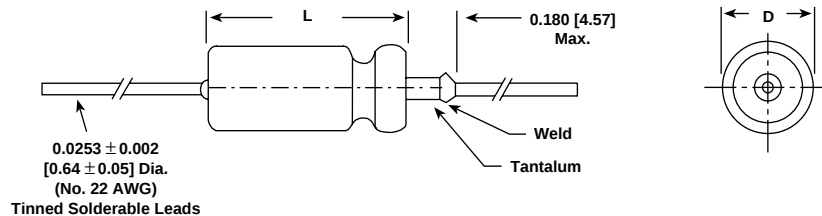
FEATURES

Improved reliability through the use of a glass-to-tantalum true hermetic anode seal is the prime feature of the Type 138D gelled-electrolyte sintered anode TANTALEX® capacitor. This construction eliminates all internal lead welds while retaining the strength of internal lead-welded parts. Additionally, this construction offers outstanding resistance to thermal shock.

The military equivalent to the 138D is the CLR65 and CLR69 which are qualified to MIL-C-39006/9 and /21. Capacitors in accordance with military specifications should be ordered by their military part numbers. Following the life test:

1. DCL shall not exceed 125% of the original requirement.
2. The ESR shall not exceed 200% of the initial requirement.
3. Change in capacitance value shall not exceed the percentages below.
 - a) 6 WVDC Units: + 10% to - 25% of initial measurement.
 - b) 8 WVDC and 10 WVDC Units: + 10% to - 20% of initial measurement.
 - c) 15 WVDC Units: + 10% to - 15% of initial measurement.
 - d) 20 WVDC and above: $\pm 10\%$ of initial measurement.

DIMENSIONS in inches [millimeters]



CASE CODE	BARE TUBE		WITH OUTER PLASTIC - FILM INSULATION		LEAD LENGTH	Max. WEIGHT (Ounces/Grams)
	D	L	D (Max.)	L (Max.)		
C	0.187 ± 0.015 [4.75 ± 0.38]	0.453 + 0.031 - 0.015 [11.51 + 0.79 - 0.38]	0.219 [5.56]	0.515 [13.08]	1.500 ± 0.250 [38.10 ± 6.35]	0.07 [2.0]
F	0.281 ± 0.015 [7.14 ± 0.38]	0.641 + 0.031 - 0.015 [16.28 + 0.79 - 0.38]	0.312 [7.92]	0.704 [17.88]	2.250 ± 0.250 [57.15 ± 6.35]	0.18 [5.1]
T	0.375 ± 0.015 [9.53 ± 0.38]	0.765 + 0.031 - 0.015 [19.43 + 0.79 - 0.38]	0.406 [10.31]	0.828 [21.03]	2.250 ± 0.250 [57.15 ± 6.35]	0.36 [10.2]
K	0.375 ± 0.015 [9.53 ± 0.38]	1.063 + 0.031 - 0.015 [27.00 + 0.79 - 0.38]	0.406 [10.31]	1.126 [28.60]	2.250 ± 0.250 [57.15 ± 6.35]	0.49 [13.9]

ORDERING INFORMATION

138D	306	X0	006	C	2
MODEL	CAPACITANCE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING AT +85°C	CASE CODE	STYLE NUMBER
	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	X0 = $\pm 20\%$ X9 = $\pm 10\%$ X5 = $\pm 5\%$ Special Order.	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. A decimal point is indicated by an "R" (6R3 = 6.3 volts).	See Ratings and Case Codes Table.	0 = No outer tube. 2 = Outer plastic-film insulation.

Packaging: The use of formed plastic trays for packaging these axial lead components is standard. Tape and reel is not recommended due to the unit weight.

STANDARD RATINGS

CAPACITANCE (μ F)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μ A) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
6 WVDC @ + 85°C . . . 4 WVDC @ + 125°C										
30	C	138D306X0006C2	3.4	100	0.5	2	- 40	+ 10.5	+ 12	140
68	C	138D686X0006C2	3.4	60	0.5	2	- 40	+ 14	+ 16	160
140	F	138D147X0006F2	1.8	40	0.75	3	- 40	+ 14	+ 16	330
270	F	138D277X0006F2	1.8	25	0.75	6.5	- 44	+ 17.5	+ 20	330
330	T	138D337X0006T2	1.8	20	1.0	7.9	- 44	+ 14	+ 16	410
560	T	138D567X0006T2	1.8	25	1.0	13	- 64	+ 17.5	+ 20	410
1200	K	138D128X0006K2	0.9	20	1.2	14	- 80	+ 25	+ 25	530
8 WVDC @ + 85°C . . . 5 WVDC @ + 125°C										
25	C	138D256X0008C2	3.4	100	0.5	2	- 40	+ 10.5	+ 12	140
56	C	138D566X0008C2	3.4	59	0.5	2	- 40	+ 14	+ 16	160
120	F	138D127X0008F2	1.8	48	0.75	4	- 38	+ 14	+ 16	270
220	F	138D227X0008F2	1.8	30	0.75	7	- 44	+ 17.5	+ 20	270
290	T	138D297X0008T2	1.8	24	1.0	9	- 44	+ 14	+ 16	410
430	T	138D437X0008T2	1.8	25	1.0	14	- 64	+ 17.5	+ 20	410
850	K	138D857X0008K2	0.9	22	2.0	16	- 80	+ 25	+ 25	670
10 WVDC @ + 85°C . . . 7 WVDC @ + 125°C										
20	C	138D206X0010C2	3.4	175	0.5	2	- 32	+ 10.5	+ 12	140
47	C	138D476X0010C2	3.4	100	0.5	2	- 36	+ 14	+ 16	160
100	F	138D107X0010F2	1.8	60	0.75	4	- 36	+ 14	+ 16	270
180	F	138D187X0010F2	1.8	40	0.75	7	- 36	+ 14	+ 16	270
250	T	138D257X0010T2	1.8	30	1.0	10	- 40	+ 14	+ 16	410
390	T	138D397X0010T2	1.8	25	1.0	16	- 64	+ 17.5	+ 20	410
750	K	138D757X0010K2	0.9	23	2.0	16	- 80	+ 25	+ 25	670
15 WVDC @ + 85°C . . . 10 WVDC @ + 125°C										
15	C	138D156X0015C2	3.4	155	0.5	2	- 24	+ 10.5	+ 12	130
33	C	138D336X0015C2	3.4	90	0.5	2	- 28	+ 14	+ 16	160
70	F	138D706X0015F2	2.6	75	0.75	4	- 28	+ 14	+ 16	270
120	F	138D127X0015F2	1.8	50	0.75	7	- 28	+ 17.5	+ 20	270
170	T	138D177X0015T2	1.8	35	1.5	10	- 32	+ 14	+ 16	410
270	T	138D277X0015T2	1.8	30	1.5	16	- 56	+ 17.5	+ 20	410
540	K	138D547X0015K2	1.0	23	2.5	24	- 80	+ 25	+ 25	610
20 WVDC @ + 85°C . . . 13 WVDC @ + 125°C										
12	C	138D126X0020C2	3.4	190	0.5	2	- 16	+ 10.5	+ 12	130
27	C	138D276X0020C2	3.4	100	0.5	2	- 20	+ 11	+ 14	160
60	F	138D606X0020F2	2.6	60	0.75	4	- 28	+ 13	+ 15	270
100	F	138D107X0020F2	1.8	50	0.75	7	- 28	+ 13	+ 15	270
150	T	138D157X0020T2	1.8	35	1.5	10	- 38	+ 13	+ 15	410
220	T	138D227X0020T2	1.8	30	1.5	16	- 48	+ 13	+ 15	410
470	K	138D477X0020K2	1.0	20	2.5	24	- 75	+ 25	+ 25	600

**STANDARD RATINGS**

CAPACITANCE (μF)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μA) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
25 WVDC @ + 85°C . . . 15 WVDC @ + 125°C										
10	C	138D106X0025C2	3.4	220	0.5	2	- 16	+ 8	+ 9	130
22	C	138D226X0025C2	3.6	140	0.5	2	- 20	+ 10.5	+ 12	160
50	F	138D506X0025F2	2.6	70	0.75	5	- 28	+ 13	+ 15	270
100	F	138D107X0025F2	1.8	50	0.75	10	- 28	+ 13	+ 15	270
110	T	138D117X0025T2	1.8	42	1.5	12	- 38	+ 13	+ 15	410
180	T	138D187X0025T2	1.8	32	1.5	16	- 48	+ 13	+ 15	340
350	K	138D357X0025K2	1.0	24	2.5	28	- 70	+ 25	+ 25	580
30 WVDC @ + 85°C . . . 20 WVDC @ + 125°C										
8.0	C	138D805X0030C2	3.4	275	0.5	2	- 16	+ 8	+ 12	130
15	C	138D156X0030C2	3.6	175	0.5	2	- 20	+ 10.5	+ 12	160
40	F	138D406X0030F2	2.6	65	0.75	5	- 24	+ 10.5	+ 12	270
82	F	138D826X0030F2	2.6	60	0.75	8	- 24	+ 13	+ 15	270
100	T	138D107X0030T2	1.8	40	1.5	12	- 28	+ 10.5	+ 12	410
150	T	138D157X0030T2	1.8	35	1.5	16	- 48	+ 13	+ 15	340
300	K	138D307X0030K2	1.1	25	2.5	32	- 60	+ 25	+ 25	550
35 WVDC @ + 85°C . . . 22 WVDC @ + 125°C										
7	C	138D705X0035C2	4.2	275	0.5	2	- 14	+ 7	+ 9	130
15	C	138D156X0035C2	3.4	150	0.5	2	- 16	+ 10	+ 12	160
35	F	138D356X0035F2	2.6	75	0.75	5	- 22	+ 10.5	+ 12	270
68	F	138D686X0035F2	2.6	60	0.75	8	- 24	+ 12	+ 15	270
82	T	138D826X0035T2	1.8	43	1.5	12	- 24	+ 10.5	+ 12	410
120	T	138D127X0035T2	1.8	38	1.5	16	- 30	+ 13	+ 15	410
270	K	138D277X0035K2	1.4	23	2.5	32	- 45	+ 20	+ 25	500
50 WVDC @ + 85°C . . . 30 WVDC @ + 125°C										
5.0	C	138D505X0050C2	5.1	400	0.5	2	- 16	+ 5	+ 6	130
10	C	138D106X0050C2	3.4	250	0.5	2	- 24	+ 8	+ 9	160
25	F	138D256X0050F2	2.6	95	0.75	5	- 20	+ 10.5	+ 12	270
47	F	138D476X0050F2	2.6	70	0.75	9	- 28	+ 10.5	+ 15	270
60	T	138D606X0050T2	1.8	45	1.5	12	- 16	+ 10.5	+ 12	410
82	T	138D826X0050T2	1.8	45	1.5	16	- 32	+ 13	+ 15	410
160	K	138D167X0050K2	1.4	27	2.5	32	- 50	+ 25	+ 25	460
60 WVDC @ + 85°C . . . 40 WVDC @ + 125°C										
4.0	C	138D405X0060C2	6.8	550	0.5	2	- 16	+ 5	+ 6	110
8.2	C	138D825X0060C2	4.2	275	0.5	2	- 24	+ 8	+ 9	140
20	F	138D206X0060F2	2.6	105	0.75	5	- 16	+ 10.5	+ 12	270
39	F	138D396X0060F2	2.6	90	0.75	9	- 28	+ 10.5	+ 12	330
50	T	138D506X0060T2	1.8	50	1.5	12	- 16	+ 10.5	+ 12	410
68	T	138D686X0060T2	1.8	50	1.5	16	- 32	+ 10.5	+ 12	410
140	K	138D147X0060K2	1.6	28	2.5	32	- 40	+ 20	+ 20	430
75 WVDC @ + 85°C . . . 50 WVDC @ + 125°C										
3.5	C	138D355X0075C2	6.8	650	0.75	2	- 16	+ 5	+ 6	110
6.8	C	138D685X0075C2	4.2	300	0.75	2	- 20	+ 8	+ 9	140
15	F	138D156X0075F2	2.6	150	1.0	5	- 16	+ 8	+ 9	270
33	F	138D336X0075F2	2.6	90	1.0	10	- 24	+ 10.5	+ 15	270
40	T	138D406X0075T2	2.6	60	2.0	12	- 16	+ 10.5	+ 12	410
56	T	138D566X0075T2	2.6	60	2.0	17	- 28	+ 10.5	+ 15	410
110	K	138D117X0075K2	1.8	29	4.0	36	- 35	+ 20	+ 20	400

*Part Numbers listed are for units with outer plastic-film insulation and a capacitance tolerance of $\pm 20\%$. For bare case units, substitute "0" for "2" at the end of the Part Number. For capacitors with $\pm 10\%$ tolerance, change the digit following the letter "X" to "9".

STANDARD RATINGS

CAPACITANCE (μ F)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μ A) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
100 WVDC @ + 85°C . . . 70 WVDC @ + 125°C										
2.5	C	138D255X0100C2	6.8	950	1.0	2	- 16	+ 7	+ 8	100
4.7	C	138D475X0100C2	5.1	500	1.0	2	- 16	+ 7	+ 8	130
11	F	138D116X0100F2	3.4	200	1.0	4	- 16	+ 7	+ 8	230
22	F	138D226X0100F2	2.6	100	1.0	9	- 16	+ 7	+ 8	230
30	T	138D306X0100T2	2.6	80	2.0	12	- 16	+ 7	+ 8	340
43	T	138D436X0100T2	2.6	70	2.0	17	- 20	+ 7	+ 8	340
86	K	138D866X0100K2	1.8	30	4.0	36	- 25	+ 15	+ 15	400
125 WVDC @ + 85°C . . . 85 WVDC @ + 125°C										
1.7	C	138D175X0125C2	6.8	1250	1.0	2	- 16	+ 7	+ 8	100
3.6	C	138D365X0125C2	6.0	600	1.0	2	- 16	+ 7	+ 8	110
9.0	F	138D905X0125F2	3.4	240	1.0	5	- 16	+ 7	+ 8	210
14	F	138D146X0125F2	2.6	167	1.0	7	- 16	+ 7	+ 8	210
18	T	138D186X0125T2	2.6	129	2.0	9	- 16	+ 7	+ 8	340
25	T	138D256X0125T2	2.6	93	2.0	13	- 16	+ 7	+ 8	340
56	K	138D566X0125K2	1.8	32	4.0	40	- 25	+ 15	+ 15	400
150 WVDC @ + 85°C . . . 85 WVDC @ + 125°C										
1.7	C	138D175X0150C2	6.8	1250	1.0	3	- 16	+ 7	+ 8	100
3.0	C	138D305X0150C2	6.0	710	1.0	3	- 16	+ 7	+ 8	110
6.8	F	138D685X0150F2	3.4	300	2.0	12	- 16	+ 7	+ 8	190
11	F	138D116X0150F2	3.4	200	2.0	12	- 16	+ 7	+ 8	190
14	T	138D146X0150T2	2.6	175	4.0	24	- 16	+ 7	+ 8	260
22	T	138D226X0150T2	2.6	110	4.0	24	- 16	+ 7	+ 8	260

EXTENDED RATINGS

CAPACITANCE (μF)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μA) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
6 WVDC @ + 85°C . . . 4 WVDC @ + 125°C										
140	C	138D147X0006C2	3.0	40	0.5	9	- 58	+ 13	+ 16	160
200	C	138D207X0006C2	2.6	36	0.5	9	- 64	+ 13	+ 16	180
560	F	138D567X0006F2	2.2	20	1.5	14	- 80	+ 16	+ 20	300
820	F	138D827X0006F2	2.2	18	1.5	14	- 88	+ 16	+ 20	300
1000	T	138D108X0006T2	1.4	20	2.5	20	- 85	+ 20	+ 25	410
1500	T	138D158X0006T2	1.2	18	2.5	20	- 90	+ 20	+ 25	480
2200	K	138D228X0006K2	0.9	13	3.5	24	- 90	+ 25	+ 30	670
8 WVDC @ + 85°C . . . 5 WVDC @ + 125°C										
120	C	138D127X0008C2	3.0	50	0.5	9	- 54	+ 13	+ 16	160
180	C	138D187X0008C2	2.6	45	0.5	9	- 60	+ 13	+ 16	180
470	F	138D477X0008F2	2.2	25	1.5	14	- 75	+ 16	+ 20	300
680	F	138D687X0008F2	2.2	22	1.5	14	- 83	+ 16	+ 20	300
850	T	138D857X0008T2	1.4	20	2.5	20	- 85	+ 20	+ 25	410
1400	T	138D148X0008T2	1.2	18	2.5	20	- 88	+ 20	+ 25	480
1800	K	138D188X0008K2	0.9	14	3.5	25	- 90	+ 20	+ 30	670

* Part Numbers listed are for units with outer plastic-film insulation and a capacitance tolerance of $\pm 20\%$. For bare case units, substitute "0" for "2" at the end of the Part Number. For capacitors with $\pm 10\%$ tolerance, change the digit following the letter "X" to "9".

**EXTENDED RATINGS**

CAPACITANCE (μF)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μA) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
10 WVDC @ + 85°C . . . 7 WVDC @ + 125°C										
100	C	138D107X0010C2	3.0	60	0.5	9	- 50	+ 13	+ 16	160
150	C	138D157X0010C2	2.6	54	0.5	9	- 55	+ 13	+ 16	180
390	F	138D397X0010F2	2.2	30	1.5	16	- 70	+ 16	+ 20	300
560	F	138D567X0010F2	2.2	27	1.5	16	- 77	+ 16	+ 20	300
750	T	138D757X0010T2	1.4	20	2.5	20	- 80	+ 20	+ 25	410
1200	T	138D128X0010T2	1.2	18	2.5	20	- 88	+ 20	+ 25	480
1500	K	138D158X0010K2	0.9	15	3.5	25	- 88	+ 25	+ 30	670
15 WVDC @ + 85°C . . . 10 WVDC @ + 125°C										
68	C	138D686X0015C2	3.4	80	0.5	9	- 40	+ 13	+ 16	140
100	C	138D107X0015C2	3.6	72	0.5	9	- 44	+ 13	+ 16	160
270	F	138D277X0015F2	2.2	35	1.5	16	- 60	+ 16	+ 20	300
390	F	138D397X0015F2	2.2	31	1.5	16	- 16	+ 16	+ 20	300
540	T	138D547X0015T2	1.6	25	3.0	24	- 70	+ 20	+ 25	440
820	T	138D827X0015T2	1.6	22	3.0	24	- 77	+ 20	+ 25	440
1000	K	138D108X0015K2	0.9	17	4.0	32	- 77	+ 25	+ 30	610
20 WVDC @ + 85°C . . . 13 WVDC @ + 125°C										
56	C	138D566X0020C2	3.4	90	0.5	9	- 38	+ 13	+ 16	140
82	C	138D826X0020C2	3.6	81	0.5	9	- 43	+ 13	+ 16	160
220	F	138D227X0020F2	2.2	35	1.5	16	- 60	+ 16	+ 20	300
330	F	138D337X0020F2	2.2	31	1.5	16	- 66	+ 16	+ 20	300
390	T	138D397X0020T2	1.6	25	3.0	24	- 65	+ 20	+ 25	440
680	T	138D687X0020T2	1.6	22	3.0	24	- 75	+ 20	+ 25	440
820	K	138D827X0020K2	0.9	18	4.0	32	- 75	+ 25	+ 30	610
25 WVDC @ + 85°C . . . 15 WVDC @ + 125°C										
47	C	138D476X0025C2	3.4	100	0.5	9	- 35	+ 12	+ 15	140
68	C	138D686X0025C2	3.6	90	0.5	9	- 40	+ 12	+ 15	160
180	F	138D187X0025F2	2.2	37	1.5	16	- 55	+ 13	+ 16	300
270	F	138D277X0025F2	2.2	33	1.5	16	- 62	+ 13	+ 16	300
350	T	138D357X0025T2	1.6	27	3.0	28	- 60	+ 20	+ 25	440
560	T	138D567X0025T2	1.6	24	3.0	28	- 72	+ 20	+ 25	440
680	K	138D687X0025K2	0.9	19	4.0	32	- 72	+ 25	+ 30	610
30 WVDC @ + 85°C . . . 20 WVDC @ + 125°C										
39	C	138D396X0030C2	3.4	110	0.5	9	- 32	+ 12	+ 15	140
56	C	138D566X0030C2	3.8	100	0.5	9	- 38	+ 12	+ 15	140
150	F	138D157X0030F2	2.2	40	1.5	16	- 50	+ 13	+ 16	300
220	F	138D227X0030F2	2.2	36	1.5	16	- 60	+ 13	+ 16	300
330	T	138D337X0030T2	1.6	28	3.0	32	- 50	+ 20	+ 25	440
470	T	138D477X0030T2	1.6	25	3.0	32	- 65	+ 20	+ 25	440
560	K	138D567X0030K2	0.9	20	4.0	36	- 65	+ 25	+ 30	590
35 WVDC @ + 85°C . . . 22 WVDC @ + 125°C										
33	C	138D336X0035C2	3.4	130	0.5	9	- 30	+ 10	+ 12	140
47	C	138D476X0035C2	3.8	115	0.5	9	- 35	+ 10	+ 12	140
120	F	138D127X0035F2	2.2	45	1.5	16	- 45	+ 13	+ 16	300
150	F	138D157X0035F2	2.2	41	1.5	16	- 52	+ 13	+ 16	300
220	T	138D227X0035T2	1.6	30	3.0	32	- 45	+ 20	+ 25	440
390	T	138D397X0035T2	1.6	27	3.0	32	- 58	+ 20	+ 25	440
470	K	138D477X0035K2	0.9	21	4.0	36	- 58	+ 25	+ 30	590

*Part Numbers listed are for units with outer plastic-film insulation and a capacitance tolerance of $\pm 20\%$. For bare case units, substitute "0" for "2" at the end of the Part Number. For capacitors with $\pm 10\%$ tolerance, change the digit following the letter "X" to "9".

EXTENDED RATINGS

CAPACITANCE (μ F)	CASE CODE	PART NUMBER*	Max. ESR @ + 25°C (Ohms)	Max. IMP. @ - 55°C (Ohms)	Max. DCL (μ A) @		Max. CAPACITANCE CHANGE (%) @			Max. RMS RIPPLE 120 Hz (mA)
					+ 25°C	+ 85°C + 125°C	- 55°C	+ 85°C	+ 125°C	
50 WVDC @ + 85°C . . . 30 WVDC @ + 125°C										
22	C	138D226X0050C2	3.4	150	1.0	9	- 24	+ 10	+ 12	140
33	C	138D336X0050C2	3.8	135	1.0	9	- 29	+ 10	+ 12	140
82	F	138D826X0050F2	2.2	55	2.0	24	- 35	+ 10	+ 15	300
120	F	138D127X0050F2	2.2	49	2.9	24	- 42	+ 12	+ 15	300
160	T	138D167X0050T2	1.8	32	3.0	32	- 35	+ 20	+ 25	420
270	T	138D277X0050T2	1.6	29	3.0	32	- 46	+ 20	+ 25	440
330	K	138D337X0050K2	1.0	22	4.0	36	- 46	+ 25	+ 30	550
60 WVDC @ + 85°C . . . 40 WVDC @ + 125°C										
18	C	138D186X0060C2	4.2	160	1.0	12	- 20	+ 10	+ 12	140
27	C	138D276X0060C2	3.8	144	1.0	12	- 24	+ 10	+ 12	140
68	F	138D686X0060F2	2.2	60	3.0	20	- 30	+ 12	+ 15	270
100	F	138D107X0060F2	2.2	54	3.0	20	- 36	+ 12	+ 15	300
140	T	138D147X0060T2	1.8	32	4.0	32	- 30	+ 16	+ 20	420
220	T	138D227X0060T2	1.6	29	4.0	32	- 40	+ 16	+ 20	440
270	K	138D277X0060K2	1.2	33	5.0	36	- 45	+ 20	+ 25	550
75 WVDC @ + 85°C . . . 50 WVDC @ + 125°C										
15	C	138D156X0075C2	4.2	175	1.0	12	- 16	+ 10	+ 12	140
22	C	138D226X0075C2	3.8	157	1.0	12	- 19	+ 10	+ 12	140
56	F	138D566X0075F2	2.2	70	3.0	24	- 25	+ 12	+ 15	270
82	F	138D826X0075F2	2.2	63	3.0	24	- 30	+ 12	+ 15	300
110	T	138D117X0075T2	1.8	33	4.0	36	- 25	+ 16	+ 20	420
180	T	138D187X0075T2	1.6	30	4.0	36	- 35	+ 16	+ 20	440
220	K	138D227X0075K2	1.4	24	5.0	40	- 40	+ 20	+ 25	450
100 WVDC @ + 85°C . . . 70 WVDC @ + 125°C										
8.2	C	138D825X0100C2	4.2	250	1.0	12	- 12	+ 10	+ 12	130
10	C	138D106X0100C2	4.2	200	1.0	12	- 17	+ 10	+ 12	130
33	F	138D336X0100F2	2.5	85	3.0	24	- 18	+ 12	+ 15	250
39	F	138D396X0100F2	2.5	80	3.0	24	- 20	+ 12	+ 15	250
56	T	138D566X0100T2	1.8	45	4.0	40	- 20	+ 14	+ 16	400
68	T	138D686X0100T2	1.8	40	4.0	40	- 30	+ 14	+ 16	400
120	K	138D127X0100K2	1.5	30	5.0	48	- 35	+ 15	+ 17	440
125 WVDC @ + 85°C . . . 85 WVDC @ + 125°C										
5.6	C	138D565X0125C2	4.2	375	1.5	12	- 10	+ 10	+ 12	130
6.8	C	138D685X0125C2	4.2	300	1.5	12	- 14	+ 10	+ 12	130
22	F	138D226X0125F2	2.9	95	3.0	24	- 14	+ 12	+ 15	250
27	F	138D276X0125F2	2.5	90	3.0	24	- 18	+ 12	+ 15	250
39	T	138D396X0125T2	1.8	60	4.0	40	- 16	+ 14	+ 16	400
47	T	138D476X0125T2	1.8	50	4.0	40	- 26	+ 14	+ 16	400
82	K	138D826X0125K2	1.5	32	5.0	48	- 30	+ 15	+ 17	440
150 WVDC @ + 85°C . . . 100 WVDC @ + 125°C										
5.6	C	138D565X0150C2	4.2	375	2.0	12	- 10	+ 10	+ 12	130
22	F	138D226X0150F2	2.5	95	4.0	24	- 14	+ 12	+ 15	250
39	T	138D396X0150T2	1.8	60	6.0	40	- 16	+ 14	+ 16	400

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