

Vishay

# Wet Tantalum Capacitors Cylindrical Body, Hermetically Sealed



#### PERFORMANCE CHARACTERISTICS

Operating Temperature: -55 °C to +175 °C with proper

derating

Voltage Range: 8 V<sub>DC</sub> to 630 V<sub>DC</sub> at 85 °C

Reverse Voltage: none

Capacitance Range: 2 µF to 2200 µF

**Tolerance Range:** 

-15 % to +50 % (standard for XTK, XTM, XTV) -15 % to +75 % (standard for XTH, XTL)

± 20 % (special order)

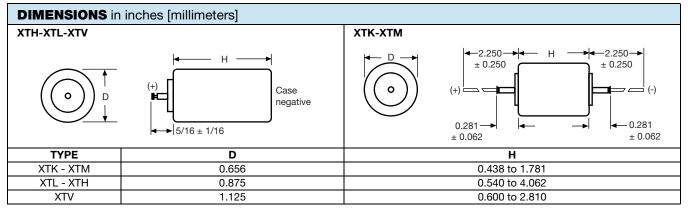
#### **FEATURES**

- · High temperature
- · High voltage
- · High capacitance
- Withstands high frequency vibration to 2000 Hz
- · Hermetically sealed
- · Long shelf life
- DSCC drawings 04032 and 04033
- Terminations: standard 100 % nickel (RoHS compliant)
- Mounting: arrays and assemblies
- Material categorization: for definitions of compliance please see <a href="https://www.vishav.com/doc?99912">www.vishav.com/doc?99912</a>

ORDEF	ORDERING INFORMATION														
XTV	126	Т	630	Р	0	Α									
MODEL	CAPACITANCE CODE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	CASE CODE	INSULATION	TERMINAL CONFIGURATION									
XTH XTK XTL XTM XTV	This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow.	$T = -15 \% \text{ to } +50 \%$ (XTK, XTM, XTV standard) $U = -15 \% \text{ to } +75 \%$ (XTH, XTL standard) $M = \pm 20 \%$ (special order)	This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating.	P = polar (case negative) R = reverse polarity (case positive)	0 = uninsulated (standard) 4 = teflon (+175 °C limit)	See Styles									

#### Note

For styles, terminal configurations, mounting methods and hardware, please see pages following Standard Ratings table



#### Note

For insulated parts, add 0.015" [0.38] to the diameter. The insulation shall lap over the ends of the capacitor body.



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												MAX.	SI	ZE	
CAPACITANCE	WO	MAX. WORKING VOLTAGE		ľ	MAX. DC MAX. \ (μΑ)	/ <sub>DC</sub>	MAX. Z -55°C	CH	IAX. % C IANGE F OOM TE	ROM	APPROX. WEIGHT	RIPPLE 120 Hz RMS -55 °C TO +175 °C		H +0.062 -0.062	
(μ <b>F</b> )	+125 °C	+175 °C	(Ω)	+85 °C	+125°	C +175 °C	(Ω) -55 °C	+85 °C	+175 °C	(g)	(mA)				
							8 V <sub>DC</sub>	AT +85	°C						
70	7	5	10.0	30	45	60	60	-60	+30	+30	14	137	0.656	0.438	XTK706(1)008P
140	7	5	5.0	50	75	100	30	-60	+30	+30	15	213	0.656	0.562	XTM147(1)008P
							10 V <sub>D</sub>	AT +85	5°C						
50	8.5	7	10.0	25	37	50	75	-60	+30	+30	14	137	0.656	0.438	XTK506(1)010P
100	8.5	7	5.0	45	67	90	40	-60	+30	+30	15	213	0.656	0.562	XTM107(1)010P
								AT +85							
580	10	8	1.5	135	197	270	20	-90	+20	+35	48	550	1.125		XTV587(1)012P
850	10	8	1.5	135	197	270	20	-90	+20	+35	50	550	1.125		XTV857(1)012P
1100	10	8	1.5	135	197	270	20	-90	+20	+35	60	694	1.125		XTV118(1)012P
2200	10	8	1.5	135	197	270	20	-90	+20	+35	82	694	1.125	1.100	XTV228(1)012P
							18 V <sub>D</sub>	AT +85	5°C						
35	15	12	10.0	30	45	60	85	-60	+30	+30	14	137	0.656		XTK356(1)018F
70	15	12	5.0	50	75	100	45	-60	+30	+30	15	213	0.656		XTM706(1)018F
120	15	12	2.8	50	75	100	30	-60	+15	+40	26	328	0.875		XTL127(1)018P
240	15	12	2.5	80	120	160	20	-60	+15	+40	32	390	0.875	0.732	XTH247(1)018P
390	15	12	1.5	165	227	330	20	-85	+20	+35	48	550	1.125		XTV397(1)018P
560	15	12	1.5	165	227	330	20	-85	+20	+35	50	550	1.125	0.600	XTV567(1)018P
900	15	12	1.5	165	227	330	20	-85	+20	+35	68	694	1.125	1.100	XTV907(1)018P
1800	15	12	1.5	165	227	330	20	-85	+20	+35	82	694	1.125	1.100	XTV188(1)018P
								AT +85							
28	17.5	13	10.0	30	45	60	85	-60	+30	+30	14	137	0.656		XTK286(1)020P
56	17.5	13	5.0	50	75	100	45	-60	+30	+30	15	213	0.656		XTM566(1)020P
100	17.5	13	2.8	50	75	100	30	-60	+15	+40	26	328	0.875		XTL107(1)020P
200	17.5	13	2.5	80	120	160	20	-60	+15	+40	32	390	0.875	0.732	XTH207(1)020P
								AT +85							
20	25	20	10.0	35	52	70	125	-40	+20	+20	14	137	0.656		XTK206(1)030P
40	25	20	5.0	60	90	120	75	-40	+20	+20	15	213	0.656		XTM406(1)030F
75	25	20	2.7	55	82	110	45	-45	+15	+30	26	333	0.875		XTL756(1)030P
150	25	20	2.7	90	135	180	30	-45	+15	+30	32	375	0.875		XTH157(1)030P
250	25	20	2.5	195	287	390	20	-65	+20	+35	48	427	1.125		XTV257(1)030P
370	25	20	1.5	125	170	215	15	-65	+20	+35	50	550	1.125		XTV377(1)030P
650	25	20	1.5	145	202	250	15	-85	+20	+35	68	694	1.125		XTV657(1)030P
1300	25	20	1.5	190	282	375	10	-85	+20	+35	82	694	1.125	1.100	XTV138(1)030P
								AT +85							
20	30	23	10.0	35	52	72	125	-40	+20	+20	14	137	0.656		XTK206(1)035P
40	30	23	5.0	60	90	120	75	-40	+20	+20	15	213	0.656		XTM406(1)035P
60	30	23	2.7	55	82	110	45	-45	+10	+30	26	333	0.875	0.540	XTL606(1)035P

#### Note

Part number definitions:

(1) Tolerance code:

T = -15 % to +50 % (standard for XTK, XTM, XTV)

U = -15 % to +75 % (standard for XTH, XTL)

 $M = \pm 20 \%$  (available by special order)



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												MAX.	SI	ZE	
CAPACITANCE	wo	MAX. WORKING VOLTAGE		MAX. DCL AT MAX. V <sub>DC</sub> (μΑ)			MAX. Z -55°C	CH	MAX. % CAP. CHANGE FROM ROOM TEMP.			RIPPLE 120 Hz RMS -55 °C TO +175 °C	D +0.031	H +0.062 -0.062	PART NUMBER
(μ <b>F</b> )	+125 °C	+175 °C	(Ω)	+85 °C	+125 °C	+175 °C	(Ω)	-55 °C	+85 °C	+175 °C	(g)	(mA)			
							40 V <sub>DC</sub>	AT +8	5°C						
190	34	27	2.5	195	297	400	20	-55	+20	+35	48	427	1.125	0.600	XTV197(1)040P0/
290	34	27	2.5	200	300	400	20	-55	+20	+35	50	427	1.125	0.600	XTV297(1)040P0/
500	34	27	1.5	200	300	400	20	-75	+20	+35	68	694	1.125	1.100	XTV507(1)040P0
1000	34	27	1.5	195	297	400	20	-75	+20	+35	82	694	1.125	1.100	XTV108(1)040P0
							50 V <sub>DC</sub>	AT +8	5 °C						
900	44	32	1.5	195	297	400	25	-85	+20	+35	82	694	1.125	1.100	XTV907(1)050P0/
							60 V <sub>DC</sub>	AT +8	5 °C						
12	50	40	10.0	35	52	70	180	-30	+20	+20	14	137	0.656		XTK126(1)060P0
25	50	40	5.0	60	90	120	90	-30	+20	+20	15	213	0.656	0.562	XTM256(1)060P0
40	50	40	2.7	60	90	120	65	-35	+10	+20	26	333	0.875	0.540	XTL406(1)060P0
70	50	40	2.7	90	135	180	40	-35	+10	+20	32	375	0.875	0.732	XTH706(1)060P0
80	50	40	2.7	95	142	190	35	-35	+10	+20	32	375	0.875	0.732	XTH806(1)060P0
130	50	40	2.5	210	315	420	30	-50	+20	+35	48	427	1.125	0.600	XTV137(1)060P0
200	50	40	1.5	135	182	230	30	-50	+20	+35	50	550	1.125	0.600	XTV207(1)060P0
350	50	40	1.5	155	210	265	25	-70	+20	+35	68	694	1.125	1.100	XTV357(1)060P0
700	50	40	1.5	200	275	350	15	-70	+20	+35	82	694	1.125	1.100	XTV707(1)060P0
750	50	40	1.5	200	275	350	29	-70	+20	+35	82	694	1.125	1.100	XTV757(1)060P0
							90 V <sub>DC</sub>	AT +8	5 °C						
8.0	80	60	10.0	35	52	70	250	-30	+20	+20	14	137	0.656	0.438	XTK805(1)090P0
16	80	60	5.0	60	90	120	125	-30	+20	+20	15	213	0.656	0.562	XTM166(1)090P0
25	80	60	2.7	55	82	110	90	-35	+10	+20	26	333	0.875		XTL256(1)090P0
50	80	60	2.7	90	135	180	45	-35	+10	+20	32	375	0.875		XTH506(1)090P0
84	80	60	2.5	195	287	390	40	-40	+20	+35	48	427	1.125	0.600	XTV846(1)090P0
120	80	60	1.5	135	182	230	40	-40	+20	+35	50	550	1.125		XTV127(1)090P0
220	80	60	1.5	145	202	250	30	-60	+20	+35	68	694	1.125		XTV227(1)090P0
450	80	60	1.5	195	215	235	25	-60	+20	+35	82	694	1.125	1.100	XTV457(1)090P0
							180 V <sub>DC</sub>								
2.0	160	120	20.0	75	112	150	850	-30	+20	+20	21	108	0.656		XTK205(1)180P0
4.0	160	120	20.0	35	52	70	500	-30	+20	+20	21	117	0.656		XTK405(1)180P0
8.0	160	120	10.0	60	90	120	250	-30	+20	+20	23	186	0.656		XTM805(1)180P0
12	160	120	5.6	55	82	110	180	-35	+10	+20	44	282	0.875		XTL126(1)180P0.
25	160	120	5.3	90	135	180	90	-35	+10	+20	56	341	0.875		XTH256(1)180P0
42	160	120	5.0	120	162	205	75	-40	+20	+35	74	363	1.125		XTV426(1)180P0
60	160	120	3.0	135	182	230	60	-40	+20	+35	78	363	1.125		XTV606(1)180P0
110	160	120	3.0	145	202	250	60	-60	+20	+35	114	631	1.125		XTV117(1)180P0
230	160	120	3.0	200	275	350	50	-60	+20	+35	142	631	1.125	1.938	XTV237(1)180P0

#### Note

• Part number definitions:

(1) Tolerance code:

T = -15 % to +50 % (standard for XTK, XTM, XTV)

U = -15 % to +75 % (standard for XTH, XTL)

 $M = \pm 20 \%$  (available by special order)



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												MAX. RIPPLE	SI	ZE	-
CAPACITANCE	MAX. WORKING VOLTAGE		TYP. ESR	MAX. DCL AT MAX. V <sub>DC</sub> (μA)			MAX. Z -55°C	CH	AX. % C ANGE FI DOM TEI	ROM	APPROX. WEIGHT	RMS		H +0.062 -0.062	PART NUMBER
(μ <b>F</b> )	+125 °C	+175 °C	(Ω)	+85 °C	+125 °C	+175 °C	(Ω)	-55 °C	+85 °C	+175 °C	(g)	(mA)			
						:	270 V <sub>DC</sub>	AT +8	5 °C						
2.5	240	180	30.0	35	52	70	750	-30	+20	+20	28	112	0.656	1.031	XTK255(1)270P0
5.0	240	180	15.0	55	82	110	375	-30	+20	+20	31	179	0.656	1.375	XTM505(1)270P0
8.0	240	180	8.3	55	82	110	270	-35	+10	+20	62	266	0.875	1.270	XTL805(1)270P0
16	240	180	8.3	90	135	180	135	-35	+10	+20	81	320	0.875	1.865	XTH166(1)270P0
28	240	180	7.5	120	162	205	80	-40	+20	+35	100	339	1.125	1.350	XTV286(1)270P0
40	240	180	7.5	135	182	230	100	-40	+20	+35	104	339	1.125	1.350	XTV406(1)270P0
75	240	180	4.5	145	202	250	90	-60	+20	+35	160	608	1.125	2.812	XTV756(1)270P0
150	240	180	4.5	195	215	235	75	-60	+20	+35	202	608	1.125	2.812	XTV157(1)270P0
						;	360 V <sub>D</sub>	AT +8	5 °C						
2.0	320	240	40.0	35	52	70	1000	-30	+20	+20	37	108	0.656	1.312	XTK205(1)360P0
4.0	320	240	20.0	60	90	120	500	-30	+20	+20	41	175	0.656	1.781	XTM405(1)360P0
6.0	320	240	11.0	55	82	110	360	-35	+10	+20	80	258	0.875	1.635	XTL605(1)360P0
12	320	240	11.0	90	135	180	180	-35	+10	+20	105	314	0.875	2.420	XTH126(1)360P0
22	320	240	10.0	125	170	215	100	-40	+20	+35	126	323	1.125	1.705	XTV226(1)360P0
30	320	240	10.0	135	182	230	120	-40	+20	+35	133	323	1.125	1.705	XTV306(1)360P0
							450 V <sub>DC</sub>	AT +8	5 °C						
5.0	400	300	13.0	55	82	110	450	-35	+10	+20	98	262	0.875	2.000	XTL505(1)450P0
10	400	300	13.0	90	135	180	225	-35	+10	+20	130	318	0.875	2.980	XTH106(1)450P0
17	400	300	12.5	125	170	215	130	-40	+20	+35	152	315	1.125	2.080	XTV176(1)450P0
25	400	300	12.5	135	182	230	150	-40	+20	+35	164	315	1.125	2.080	XTV256(1)450P0
							540 V <sub>DC</sub>	AT +8	5 °C						
4.0	480	360	16.6	55	82	110	540	-35	+10	+20	114	250	0.875	2.365	XTL405(1)540P0
8.0	480	360	16.6	90	135	180	270	-35	+10	+20	154	306	0.875	3.532	XTH805(1)540P0
14	480	300	15.0	120	162	205	160	-40	+20	+35	178	309	1.125	2.435	XTV146(1)540P0
20	480	300	15.0	135	182	230	170	-40	+20	+35	196	309	1.125	2.435	XTV206(1)540P0
						(	630 V <sub>DC</sub>	AT +8	5 °C						
3.5	560	420	18.9	55	82	110	630	-35	+10	+20	133	249	0.875	2.720	XTL355(1)630P0
7.0	560	420	18.9	90	135	180	315	-35	+10	+20	179	308	0.875	4.062	XTH705(1)630P0
12	560	420	17.5	120	162	205	180	-40	+20	+35	204	306	1.125	2.810	XTV126T630P0
18	560	420	17.5	135	182	230	200	-40	+20	+35	225	306	1.125	2.810	XTV186(1)630P0

#### Note

• Part number definitions:

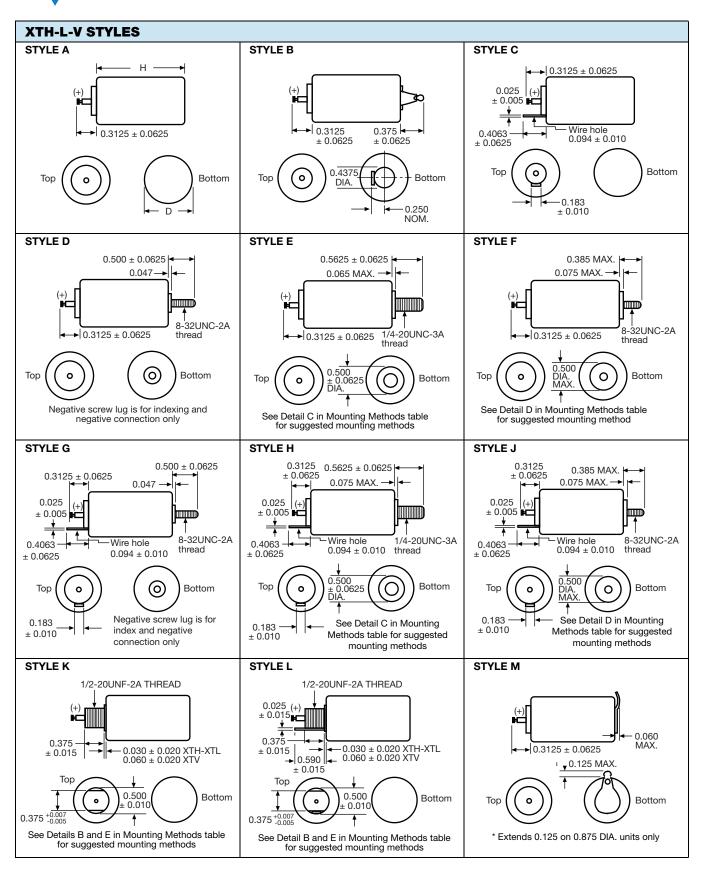
(1) Tolerance code:

T = -15 % to +50 % (standard for XTK, XTM, XTV)

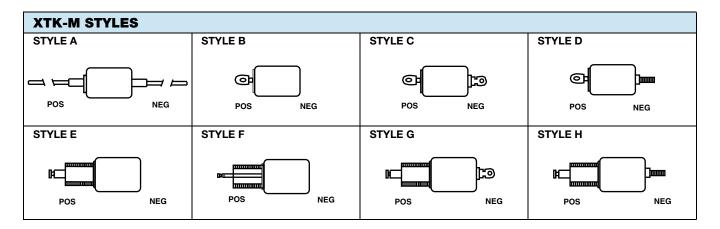
U = -15 % to +75 % (standard for XTH, XTL)

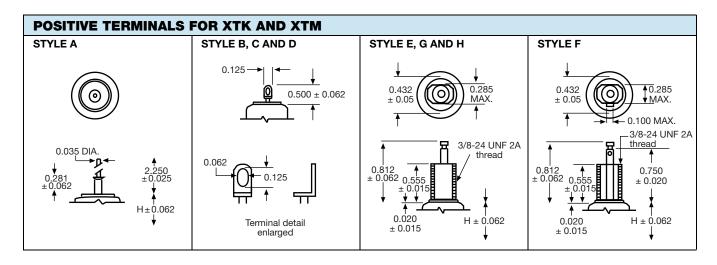
 $M = \pm 20 \%$  (available by special order)

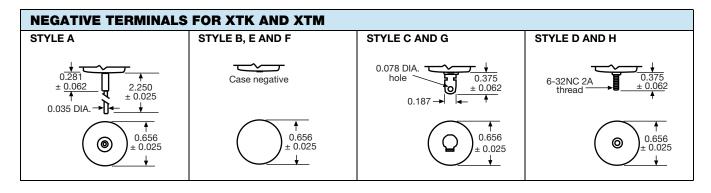




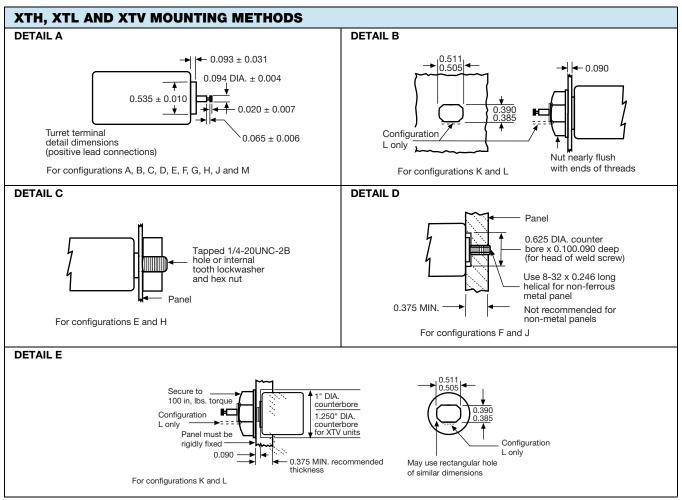












#### Note

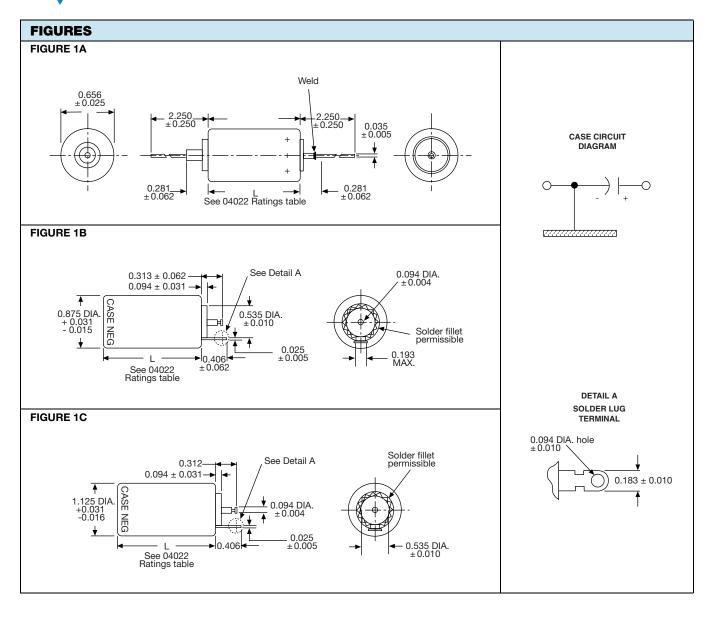
• Standard mounting nut provided is plated steel. Stainless steel nut can be obtained by adding "/STN" suffix to part number.

04022	RATI	NGS AND	CASE	CODI	ES									
DSCC DRAWING 04022	CAP. (NOM.)	CAP. TOLERANCE	DC L	DC LEAKAGE MAX. E (μΑ)			IMPEDANCE MAX.	CA	PACITA CHANG (%)		RIPPLE CURRENT 1/	DIMENSION L ± 0.062 (1.57)	FIGURE	
PIN	(μ <b>F</b> )	(%)	+25 °C	+85 °C	+125 °C	(Ω)	(Ω)	-55 °C	+85 °C	+125 °C	(mA)	(INCHES)		
	8 V <sub>DC</sub> AT +85 °C RATED; 9.2 V <sub>DC</sub> AT +85 °C SURGE													
01	70	+50, -15	6	30	48	12	60	-60	+30	+30	137	0.438 (11.13)	1A	
02	140	+50, -15	10	50	80	5.9	30	-60	+30	+30	213	0.562 (14.27)	1A	
				10 V <sub>D</sub>	<sub>C</sub> AT +85	°C RATED	11.5 V <sub>DC</sub> AT	+85 °C	SURGE					
03	50	+50, -15	5	25	40	11.7	75	-60	+30	+30	137	0.438 (11.13)	1A	
04	100	+50, -15	9	45	72	5.9	40	-60	+30	+30	213	0.562 (14.27)	1A	
				20 V <sub>I</sub>	oc AT +8	°C RATE	); 23 V <sub>DC</sub> AT +	-85 °C \$	SURGE					
05	28	+50, -15	6	30	48	12	85	-40	+20	+20	137	0.438 (11.13)	1A	
06	56	+50, -15	10	50	80	6	45	-40	+20	+20	213	0.562 (14.27)	1A	
				30 V <sub>D</sub>	<sub>C</sub> AT +85	°C RATED	34.5 V <sub>DC</sub> AT	+85 °C	SURGE					
07	20	+50, -15	7	35	56	11.7	125	-40	+20	+20	137	0.438 (11.13)	1A	
08	40	+50, -15	12	60	96	5.9	75	-40	+20	+20	213	0.562 (14.27)	1A	



DSCC DRAWING 04022	CAP. (NOM.)	CAP. TOLERANCE	DC L	EAKAGE (μΑ)	MAX.	ESR MAX. 120 Hz 25 °C	IMPEDANCE MAX.	CA	PACITAI CHANGI (%)		RIPPLE CURRENT 1/	DIMENSION L ± 0.062 (1.57)	FIGURE
PIN	(µF)	(%)	+25 °C	+85 °C	+125 °C	_	(Ω)	-55 °C		+125 °C	(mA)	(INCHES)	
	u ,	(,				. ,	; 69 V <sub>DC</sub> AT +				. ,	,	
09	12	+50, -15	7	35	56	12	180	-30	+20	+20	137	0.438 (11.13)	1A
10	25	+50, -15	12	60	96	6	90	-30	+20	+20	213	0.562 (14.27)	1A
		·		90 V <sub>D</sub>	C AT +85	°C RATED;	103 V <sub>DC</sub> AT	+85 °C	SURGE			, ,	
11	8.0	+50, -15	7	35	56	12	250	-30	+20	+20	137	0.438 (11.13)	1A
12	16	+50, -15	12	60	96	5.9	125	-30	+20	+20	213	0.562 (14.27)	1A
				180 V <sub>D</sub>	C AT +8	5 °C RATED	; 207 V <sub>DC</sub> AT	+85 °C	SURGE			<u> </u>	
13	4.0	+50, -15	7	35	56	24	500	-30	+20	+20	117	0.719 (18.26)	1A
14	8.0	+50, -15	12	60	96	12	250	-30	+20	+20	186	0.938 (23.83)	1A
				270 V <sub>D</sub>	C AT +8	5 °C RATED	; 310 V <sub>DC</sub> AT	+85 °C	SURGE				
15	2.5	+50, -15	7	35	56	36	750	-30	+20	+20	112	1.031 (26.19)	1A
16	5.0	+50, -15	11	55	88	18	375	-30	+20	+20	179	1.375 (34.93)	1A
				360 V <sub>D</sub>	oc AT +8	5 °C RATED	; 414 V <sub>DC</sub> AT	+85 °C	SURGE				
17	2.0	+50, -15	7	35	56	48	1000	-30	+20	+20	108	1.312 (33.32)	1A
18	4.0	+50, -15	12	60	96	24	500	-30	+20	+20	175	1.781 (45.24)	1A
				20 V <sub>D</sub>	<sub>C</sub> AT +8	5 °C RATED	; 23 V <sub>DC</sub> AT +	-85 °C \$	SURGE				
19	100	+50, -15	10	50	80	3.3	30	-60	+15	+20	333	0.540 (13.72)	1B
20	200	+75, -15	16	80	128	2.8	20	-60	+15	+20	375	0.732 (18.59)	1B
				30 V <sub>D</sub>	AT +85	°C RATED;	$34.5~\text{V}_{\text{DC}}~\text{AT}$	+85 °C	SURGE				
21	75	+75, -15	11	55	88	3.1	45	-45	+10	+10	333	0.540 (13.72)	1B
22	150	+75, -15	13	90	104	3	30	-45	+10	+10	375	0.732 (18.59)	1B
				60 V <sub>C</sub>	C AT +8	5 °C RATED	; 69 V <sub>DC</sub> AT +	-85 °C \$	SURGE				
23	40	+75, -15	12	60	96	3.2	65	-35	+10	+10	333	0.540 (13.72)	1B
24	80	+75, -15	19	95	152	3.1	35	-35	+10	+10	375	0.732 (18.59)	1B
				90 V <sub>D</sub>	C AT +85	°C RATED;	103 V <sub>DC</sub> AT	+85 °C	SURGE				
25	25	+75, -15	11	55	88	3.2	90	-35	+10	+10	333	0.540 (13.72)	1B
26	50	+75, -15	18	90	144	3.1	45	-35	+10	+10	375	0.732 (18.59)	1B
				180 V <sub>C</sub>	C AT +8		; 207 V <sub>DC</sub> AT						
27	12	+75, -15	11	55	88	6.6	180	-35	+10	+10	282	0.920 (23.37)	1B
28	25	+75, -15	18	90	144	6.2	90	-35	+10	+10	341	1.300 (33.02)	1B
							; 310 V <sub>DC</sub> AT						
29	8.0	+75, -15	11	55	88	9.9	270	-35	+10	+10	266	1.270 (32.36)	
30	16	+75, -15	18	90	144	9.8	135	-35	+10	+10	320	1.865 (47.37)	1B
							; 414 V <sub>DC</sub> AT						
31	6.0	+75, -15	11	55	88	13	360	-35	+10	+10	258	1.635 (41.53)	
32	12	+75, -15	18	90	144	13	180	-35	+10	+10	314	2.420 (61.47)	1B
					_		; 518 V <sub>DC</sub> AT						
33	5.0	+75, -15	11	55	88	15	450	-35	+10	+10	252	2.000 (50.80)	
34	10	+75, -15	18	90	144	15	225	-35	+10	+10	308	2.980 (75.69)	1B
							; 621 V <sub>DC</sub> AT						
35	4.0	+75, -15	11	55	88	20	540	-35	+10	+10	250	2.365 (60.07)	
36	8.0	+75, -15	18	90	144	20	270	-35	+10	+10	308	3.532 (89.71)	1B
							; 724 V <sub>DC</sub> AT					0 =0- (-: :	
37	3.5	+75, -15	11	55	88	22	630	-35	+10	+10	250	2.720 (69.09)	1B

<b>U.U_</b>	RAII	NGS AND	CASI	COL	LJ								
DSCC DRAWING 04022	CAP. (NOM.)	CAP. TOLERANCE	DC L	EAKAGI (μΑ)	E MAX.	ESR MAX. 120 Hz 25 °C	IMPEDANCE MAX.	CA	APACITAI CHANGI (%)		RIPPLE CURRENT 1/	DIMENSION L ± 0.062 (1.57)	FIGURE
PIN	(μ <b>F</b> )	(%)	+25 °C	±85 °C	+125 °C	(Ω)	(Ω)	-55 °C	+85 °C	±125 °C	(mA)	(INCHES)	
	(μι )	(70)	+20 0				); 34.5 V <sub>DC</sub> AT				(IIIA)	(IITOTIEO)	
39	370	± 20	18	125	180	1.7	15	-65	+20	+25	550	0.600 (15.24)	1C
40	370	+50, -15	18	125	180	1.7	15	-65	+20	+25	550	0.600 (15.24)	1C
41	650	± 20	21	145	210	1.8	15	-85	+20	+25	694	1.100 (27.94)	1C
42	650	+50, -15	21	145	210	1.8	15	-85	+20	+25	694	1.100 (27.94)	1C
43	1300	± 20	27	190	270	1.8	10	-85	+20	+25	694	1.100 (27.94)	1C
44	1300	+50, -15	27	190	270	1.8	10	-85	+20	+25	694	1.100 (27.94)	1C
							D; 69 V <sub>DC</sub> AT						
45	200	± 20	19	135	190	1.8	30	-50	+20	+25	550	0.600 (15.24)	1C
46	200	+50, -15	19	135	190	1.8	30	-50	+20	+25	550	0.600 (15.24)	1C
47	350	± 20	22	155	220	1.8	25	-70	+20	+25	694	1.100 (27.94)	1C
48	350	+50, -15	22	155	220	1.8	25	-70	+20	+25	694	1.100 (27.94)	1C
49 50	700	± 20	29 29	200	290	1.8	15 15	-70	+20 +20	+25	694	1.100 (27.94)	1C
50	700	+50, -15	29	200	290	1.8	15 D; 103 V <sub>DC</sub> AT	-70		+25	694	1.100 (27.94)	1C
51	120	± 20	19	135	190	1.7	40	-40	+20	+25	550	0.600 (15.24)	1C
52	120	+50, -15	19	135	190	1.7	40	-40	+20	+25	550	0.600 (15.24)	1C
53	220	± 20	21	145	210	1.8	30	-60	+20	+25	694	1.100 (27.94)	1C
54	220	+50, -15	21	145	210	1.8	30	-60	+20	+25	694	1.100 (27.94)	1C
55	450	± 20	29	195	290	1.7	35	-60	+20	+25	694	1.100 (27.94)	1C
56	450	+50, -15	29	195	290	1.7	35	-60	+20	+25	694	1.100 (27.94)	1C
				180 V	<sub>DC</sub> AT +8	5 °C RATE	D; 207 V <sub>DC</sub> A1	Γ +85 °	C SURG	E			
57	42	± 20	17	120	170	6	75	-40	+20	+25	363	0.976 (24.79)	1C
58	42	+50, -15	17	120	170	6	75	-40	+20	+25	363	0.976 (24.79)	1C
59	60	± 20	19	135	190	3.4	60	-40	+20	+25	363	0.976 (24.79)	1C
60	60	+50, -15	19	135	190	3.4	60	-40	+20	+25	363	0.976 (24.79)	1C
61	110	± 20	21	145	210	3.5	60	-60	+20	+25	631	1.938 (49.23)	1C
62	110	+50, -15	21	145	210	3.5	60	-60	+20	+25	631	1.938 (49.23)	1C
63	230	± 20	29	200	290	3.5	50 50	-60	+20	+25	631	1.938 (49.23)	1C
64	230	+50, -15	29	200	290	3.5	50	-60	+20	+25	631	1.938 (49.23)	1C
65	28	± 20	19	120	190	9	<b>D; 310 V<sub>DC</sub> A</b> 7	-40	+20	+25	339	1.350 (34.29)	1C
66	28	± 20 +50, -15	19	120	190	9	80	-40 -40	+20	+25	339	1.350 (34.29)	1C
67	40	± 20	19	135	190	8.8	100	-40	+20	+25	339	1.350 (34.29)	1C
68	40	+50, -15	19	135	190	8.8	100	-40	+20	+25	339	1.350 (34.29)	1C
69	75	± 20	21	145	210	5.2	90	-60	+20	+25	608	2.812 (71.42)	1C
70	75	+50, -15	21	145	210	5.2	90	-60	+20	+25	608	2.812 (71.42)	1C
71	150	± 20	28	195	280	5.4	75	-60	+20	+25	608	2.812 (71.42)	1C
72	150	+50, -15	28	195	280	5.4	75	-60	+20	+25	608	2.812 (71.42)	1C
				360 V		5 °C RATE	D; 414 V <sub>DC</sub> A1		C SURG				
73	22	± 20	18	125	180	11.4	100	-40	+20	+25	323	1.705 (43.31)	1C
74	22	+50, -15	18	125	180	11.6	100	-40	+20	+25	323	1.705 (43.31)	1C
75 	30	± 20	19	135	190	11.7	120	-40	+20	+25	323	1.705 (43.31)	1C
76	30	+50, -15	19	135	190	11.7	120	-40	+20	+25	323	1.705 (43.31)	1C
77	4-		40				D; 518 V <sub>DC</sub> A1				04.5	0.000 (50.00)	
77 70	17	± 20	18	125	180	15 15	130	-40 40	+20	+25	315	2.080 (52.83)	1C
78 79	17 25	+50, -15 ± 20	18 19	125 135	180 190	15 15	130 150	-40 -40	+20 +20	+25 +25	315 315	2.080 (52.83)	1C 1C
79 80	25 25	± 20 +50, -15	19	135	190	15 15	150	-40 -40	+20 +20	+25 +25	315	2.080 (52.83) 2.080 (52.83)	1C 1C
00	20	+50, -15	10				D; 621 V <sub>DC</sub> A1				010	2.000 (02.00)	-10
81	14	± 20	17	120	170	18	160	-40	+20	+25	309	2.435 (61.85)	1C
82	14	+50, -15	17	120	170	18	160	-40	+20	+25	309	2.435 (61.85)	1C
83	20	± 20	19	135	190	18	170	-40	+20	+25	309	2.435 (61.85)	1C
84	20	+50, -15	19	135	190	18	170	-40	+20	+25	309	2.435 (61.85)	1C
		, -					D; 724 V <sub>DC</sub> A1					,/	
85	12	± 20	17	120	170	16	180	-40	+20	+25	306	2.810 (71.37)	1C
86	12	+50, -15	17	120	170	16	180	-40	+20	+25	306	2.810 (71.37)	1C
87	18	± 20	19	135	190	16	200	-40	+20	+25	306	2.810 (71.37)	1C
88	18	+50, -15	19	135	190	16	200	-40	+20	+25	306	2.810 (71.37)	1C





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