

Wet Tantalum Capacitors Cylindrical Body, Hermetically Sealed



FEATURES

- High temperature
- High voltage
- High capacitance
- Withstands high frequency vibration to 2000Hz
- Hermetically sealed
- Long shelf life

PERFORMANCE CHARACTERISTICS

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

Voltage Range: 8 to 630VDC at 85°C

Reverse Voltage: None

Capacitance Range: 2μF to 2200μF

Tolerance Range:

- 15 + 50% (Standard for XTK, M, V)
- 15 + 75% (Standard for XTH, L)
- ± 20% (Special order)

ORDERING INFORMATION

XTV	126	T	630	P	0	A
MODEL	CAPACITANCE CODE	CAPACITANCE TOLERANCE	DC VOLTAGE RATING	CASE CODE	INSULATION	TERMINAL CONFIGURATION
<div style="border: 1px solid black; padding: 2px; width: fit-content;"> XTH XTK XTL XTM XTV </div>	<div style="border: 1px solid black; padding: 2px;"> This is expressed in picofarads. The first two digits are the significant figures. The third is the number of zeros to follow. </div>	<div style="border: 1px solid black; padding: 2px;"> T = - 15 + 50% (XTK, XTM, XTV standard) U = - 15 + 75% (XTH, XTL standard) M = ± 20% (Special order) </div>	<div style="border: 1px solid black; padding: 2px;"> This is expressed in volts. To complete the three-digit block, zeros precede the voltage rating. </div>	<div style="border: 1px solid black; padding: 2px;"> P = Polar </div>	<div style="border: 1px solid black; padding: 2px;"> 0 = Uninsulated (standard) 1 = Mylar (+ 125°C limit) 4 = Teflon (+ 175°C limit) </div>	<div style="border: 1px solid black; padding: 2px;"> Styles Pages 87 - 88 </div>

DIMENSIONS in inches

TYPE	D	H
XTK - XTM	0.656	0.438 to 1.781
XTL - XTH	0.875	0.540 to 4.062
XTV	1.125	0.600 to 2.810



DIMENSIONS AND STANDARD RATINGS															
CAP. μF	MAXIMUM WORKING VOLTAGE +125°C +175°C		TYPICAL ESR (Ohms)	MAXIMUM DCL @ MAXIMUM WVDC in μA +85°C +125°C +175°C			MAX Z -55°C (Ohms)	MAXIMUM % CAPACITANCE CHANGE FROM ROOM TEMPERATURE			APPROX WEIGHT (Grams)	MAX RIPPLE 120Hz RMS -55°C to +175°C (mA)	SIZE		PART NUMBER
								-55°C	+85°C	+175°C			D	H	
													+ .031	+ .062	
8 WVDC at +85°C															
70	7	5	10.0	30	45	60	60	-60	+30	+30	14	137	.656	.438	XTK706*008P0A
140	7	5	5.0	50	75	100	30	-60	+30	+30	15	213	.656	.562	XTM147*008P0A
10 WVDC at +85°C															
50	8.5	7	10.0	25	37	50	75	-60	+30	+30	14	137	.656	.438	XTK506*010P0A
100	8.5	7	5.0	45	67	90	40	-60	+30	+30	15	213	.656	.562	XTM107*010P0A
12 WVDC at +85°C															
580	10	8	1.5	135	197	270	20	-90	+20	+35	48	550	1.125	.600	XTV587*012P0A
850	10	8	1.5	135	197	270	20	-90	+20	+35	50	550	1.125	.600	XTV857*012P0A
1100	10	8	1.5	135	197	270	20	-90	+20	+35	60	694	1.125	1.100	XTV118*012P0A
2200	10	8	1.5	135	197	270	20	-90	+20	+35	82	694	1.125	1.100	XTV228*012P0A
18 WVDC at +85°C															
35	15	12	10.0	30	45	60	85	-60	+30	+30	14	137	.656	.438	XTK356*018P0A
70	15	12	5.0	50	75	100	45	-60	+30	+30	15	213	.656	.562	XTM706*018P0A
120	15	12	2.8	50	75	100	30	-60	+15	+40	26	328	.875	.540	XTL127*018P0A
240	15	12	2.5	80	120	160	20	-60	+15	+40	32	390	.875	.732	XTH247*018P0A
390	15	12	1.5	165	227	330	20	-85	+20	+35	48	550	1.125	.600	XTV397*018P0A
560	15	12	1.5	165	227	330	20	-85	+20	+35	50	550	1.125	.600	XTV567*018P0A
900	15	12	1.5	165	227	330	20	-85	+20	+35	68	694	1.125	1.100	XTV907*018P0A
1800	15	12	1.5	165	227	330	20	-85	+20	+35	82	694	1.125	1.100	XTV188*018P0A
20 WVDC at +85°C															
28	17.5	13	10.0	30	45	60	85	-60	+30	+30	14	137	.656	.438	XTK286*020P0A
56	17.5	13	5.0	50	75	100	45	-60	+30	+30	15	213	.656	.562	XTM566*020P0A
100	17.5	13	2.8	50	75	100	30	-60	+15	+40	26	328	.875	.540	XTL107*020P0A
200	17.5	13	2.5	80	120	160	20	-60	+15	+40	32	390	.875	.732	XTH207*020P0A
30 WVDC at +85°C															
20	25	20	10.0	35	52	70	125	-40	+20	+20	14	137	.656	.438	XTK206*030P0A
40	25	20	5.0	60	90	120	75	-40	+20	+20	15	213	.656	.562	XTM406*030P0A
75	25	20	2.7	55	82	110	45	-45	+15	+30	26	333	.875	.540	XTL756*030P0A
150	25	20	2.7	90	135	180	30	-45	+15	+30	32	375	.875	.732	XTH157*030P0A
250	25	20	2.5	195	287	390	20	-65	+20	+35	48	427	1.125	.600	XTV257*030P0A
370	25	20	1.5	125	170	215	15	-65	+20	+35	50	550	1.125	.600	XTV377*030P0A
650	25	20	1.5	145	202	250	15	-85	+20	+35	68	694	1.125	1.100	XTV657*030P0A
1300	25	20	1.5	190	282	375	10	-85	+20	+35	82	694	1.125	1.100	XTV138*030P0A
35 WVDC at +85°C															
20	30	23	10.0	35	52	72	125	-40	+20	+20	14	137	.656	.438	XTK206*035P0A
40	30	23	5.0	60	90	120	75	-40	+20	+20	15	213	.656	.562	XTM406*035P0A
60	30	23	2.7	55	82	110	45	-45	+10	+30	26	333	.875	.540	XTL606*035P0A
40 WVDC at +85°C															
190	34	27	2.5	195	297	400	20	-55	+20	+35	48	427	1.125	.600	XTV197*040P0A
290	34	27	2.5	200	300	400	20	-55	+20	+35	50	427	1.125	.600	XTV297*040P0A
500	34	27	1.5	200	300	400	20	-75	+20	+35	68	694	1.125	1.100	XTV507*040P0A
1000	34	27	1.5	195	297	400	20	-75	+20	+35	82	694	1.125	1.100	XTV108*040P0A
50 WVDC at +85°C															
900	44	32	1.5	195	297	400	25	-85	+20	+35	82	694	1.125	1.100	XTV907*050P0A

*Insert Tolerance Code: T = -15 +50% (Standard for XTK, XTM, XTV)
 U = -15 +75% (Standard for XTH, XTL)
 M = ± 20% (Available by Special Order)

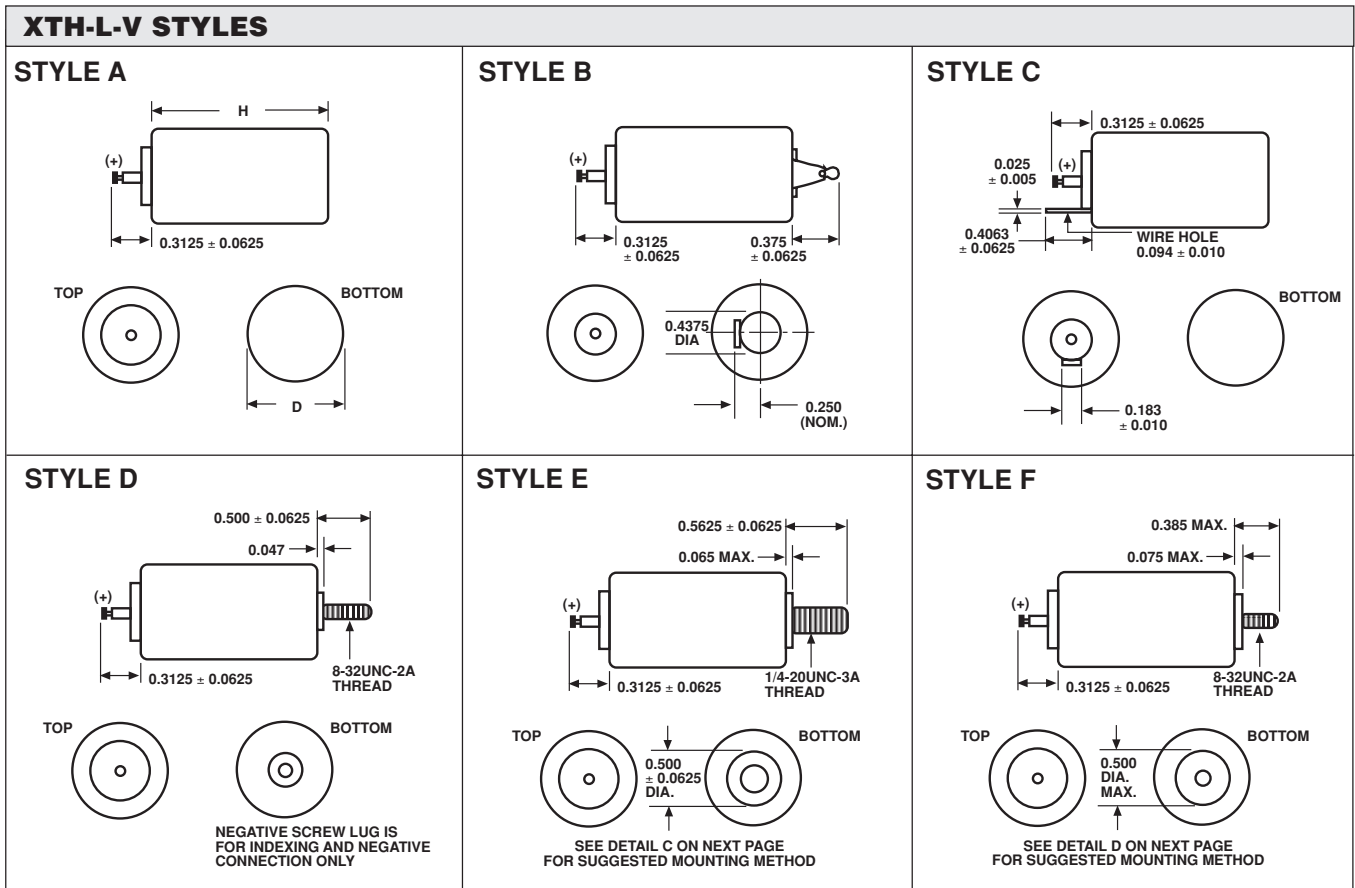


DIMENSIONS AND STANDARD RATINGS																	
CAP. μF	MAXIMUM WORKING VOLTAGE			TYPICAL ESR (Ohms)	MAXIMUM DCL @ MAXIMUM WVDC in μA			MAX Z -55°C (Ohms)	MAXIMUM % CAPACITANCE CHANGE FROM ROOM TEMPERATURE			APPROX WEIGHT (Grams)	MAX RIPPLE 120Hz RMS -55°C to +175°C (mA)		SIZE		PART NUMBER
															+125°C	+175°C	
	+0.031	+0.062	-0.015		-0.062												
60 WVDC at +85°C																	
12	50	40	10.0	35	52	70	180	-30	+20	+20	14	137	.656	.438	XTK126*060POA		
25	50	40	5.0	60	90	120	90	-30	+20	+20	15	213	.656	.562	XTM256*060POA		
40	50	40	2.7	60	90	120	65	-35	+10	+20	26	333	.875	.540	XTL406*060POA		
70	50	40	2.7	90	135	180	40	-35	+10	+20	32	375	.875	.732	XTH706*060POA		
80	50	40	2.7	95	142	190	35	-35	+10	+20	32	375	.875	.732	XTH806*060POA		
130	50	40	2.5	210	315	420	30	-50	+20	+35	48	427	1.125	.600	XTV137*060POA		
200	50	40	1.5	135	182	230	30	-50	+20	+35	50	550	1.125	.600	XTV207*060POA		
350	50	40	1.5	155	210	265	25	-70	+20	+35	68	694	1.125	1.100	XTV357*060POA		
700	50	40	1.5	200	275	350	15	-70	+20	+35	82	694	1.125	1.100	XTV707*060POA		
750	50	40	1.5	200	275	350	29	-70	+20	+35	82	694	1.125	1.100	XTV757*060POA		
90 WVDC at +85°C																	
8	80	60	10.0	35	52	70	250	-30	+20	+20	14	137	.656	.438	XTK805*090POA		
16	80	60	5.0	60	90	120	125	-30	+20	+20	15	213	.656	.562	XTM166*090POA		
25	80	60	2.7	55	82	110	90	-35	+10	+20	26	333	.875	.540	XTL256*090POA		
50	80	60	2.7	90	135	180	45	-35	+10	+20	32	375	.875	.732	XTH506*090POA		
84	80	60	2.5	195	287	390	40	-40	+20	+35	48	427	1.125	.600	XTV846*090POA		
120	80	60	1.5	135	182	230	40	-40	+20	+35	50	550	1.125	.600	XTV127*090POA		
220	80	60	1.5	145	202	250	30	-60	+20	+35	68	694	1.125	1.100	XTV227*090POA		
450	80	60	1.5	195	215	235	25	-60	+20	+35	82	694	1.125	1.100	XTV457*090POA		
180 WVDC at +85°C																	
2	160	120	20.0	75	112	150	850	-30	+20	+20	21	108	.656	.719	XTK205*180POA		
4	160	120	20.0	35	52	70	500	-30	+20	+20	21	117	.656	.719	XTK405*180POA		
8	160	120	10.0	60	90	120	250	-30	+20	+20	23	186	.656	.938	XTM805*180POA		
12	160	120	5.6	55	82	110	180	-35	+10	+20	44	282	.875	.920	XTL126*180POA		
25	160	120	5.3	90	135	180	90	-35	+10	+20	56	341	.875	1.300	XTH256*180POA		
42	160	120	5.0	120	162	205	75	-40	+20	+35	74	363	1.125	.976	XTV426*180POA		
60	160	120	3.0	135	182	230	60	-40	+20	+35	78	363	1.125	.976	XTV606*180POA		
110	160	120	3.0	145	202	250	60	-60	+20	+35	114	631	1.125	1.938	XTV117*180POA		
230	160	120	3.0	200	275	350	50	-60	+20	+35	142	631	1.125	1.938	XTV237*180POA		
270 WVDC at +85°C																	
2.5	240	180	30.0	35	52	70	750	-30	+20	+20	28	112	.656	1.031	XTK255*270POA		
5	240	180	15.0	55	82	110	375	-30	+20	+20	31	179	.656	1.375	XTM505*270POA		
8	240	180	8.3	55	82	110	270	-35	+10	+20	62	266	.875	1.270	XTL805*270POA		
16	240	180	8.3	90	135	180	135	-35	+10	+20	81	320	.875	1.865	XTH166*270POA		
28	240	180	7.5	120	162	205	80	-40	+20	+35	100	339	1.125	1.350	XTV286*270POA		
40	240	180	7.5	135	182	230	100	-40	+20	+35	104	339	1.125	1.350	XTV406*270POA		
75	240	180	4.5	145	202	250	90	-60	+20	+35	160	608	1.125	2.812	XTV756*270POA		
150	240	180	4.5	195	215	235	75	-60	+20	+35	202	608	1.125	2.812	XTV157*270POA		
360 WVDC at +85°C																	
2	320	240	40.0	35	52	70	1000	-30	+20	+20	37	108	.656	1.312	XTK205*360POA		
4	320	240	20.0	60	90	120	500	-30	+20	+20	41	175	.656	1.781	XTM405*360POA		
6	320	240	11.0	55	82	110	360	-35	+10	+20	80	258	.875	1.635	XTL605*360POA		
12	320	240	11.0	90	135	180	180	-35	+10	+20	105	314	.875	2.420	XTH126*360POA		
22	320	240	10.0	125	170	215	100	-40	+20	+35	126	323	1.125	1.705	XTV226*360POA		
30	320	240	10.0	135	182	230	120	-40	+20	+35	133	323	1.125	1.705	XTV306*360POA		

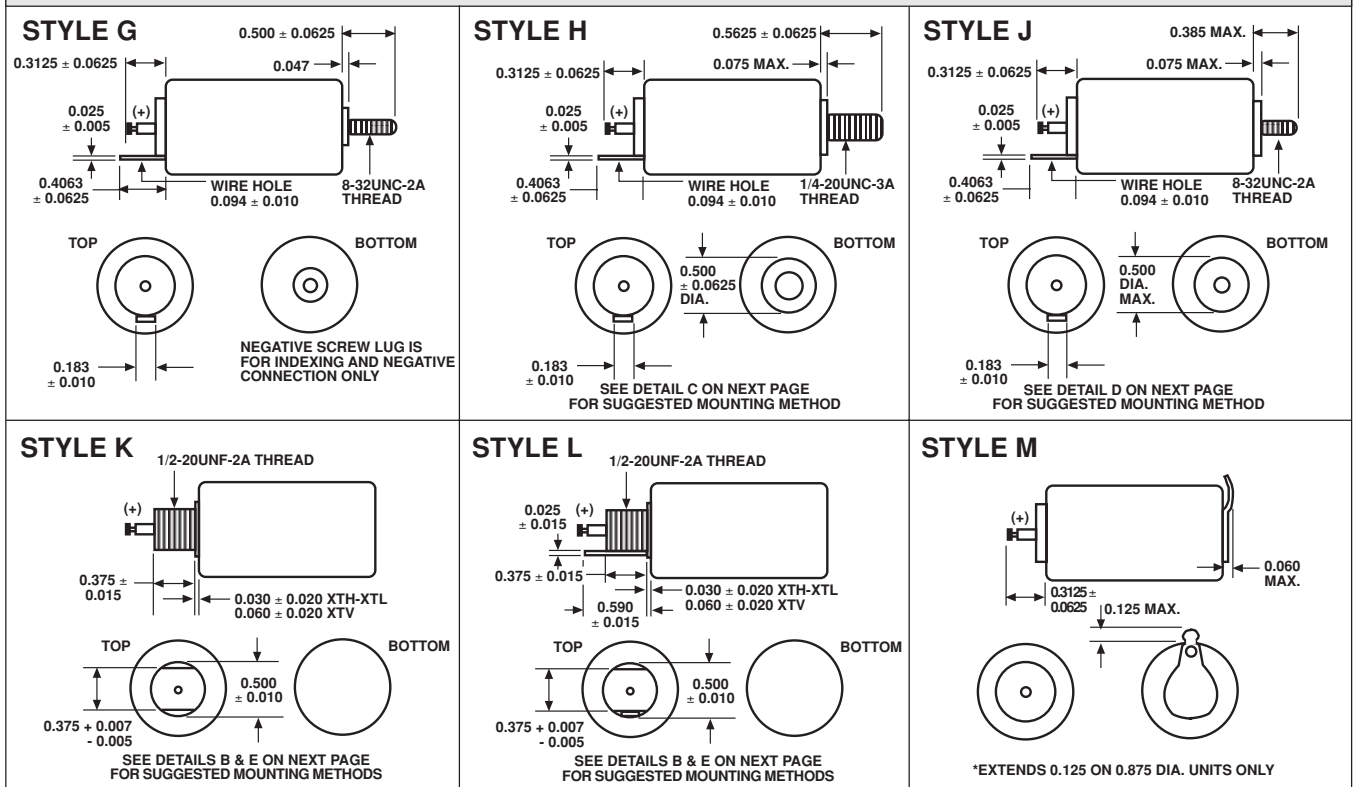
*Insert Tolerance Code: T = -15 +50% (Standard for XTK, XTM, XTV)
 U = -15 +75% (Standard for XTH, XTL)
 M = ± 20% (Available by Special Order)

DIMENSIONS AND STANDARD RATINGS															
CAP. μF	MAXIMUM WORKING VOLTAGE		TYPICAL ESR (Ohms)	MAXIMUM DCL @ MAXIMUM WVDC in μA			MAX Z - 55°C (Ohms)	MAXIMUM % CAPACITANCE CHANGE FROM ROOM TEMPERATURE			APPROX WEIGHT (Grams)	MAX RIPPLE 120Hz RMS - 55°C to + 175°C (mA)	SIZE		PART NUMBER
	+ 125°C	+ 175°C		+ 85°C	+ 125°C	+ 175°C		- 55°C	+ 85°C	+ 175°C			D	H	
450 WVDC at + 85°C															
5	400	300	13.0	55	82	110	450	- 35	+ 10	+ 20	98	262	.875	2.000	XTL505*450P0A
10	400	300	13.0	90	135	180	225	- 35	+ 10	+ 20	130	318	.875	2.980	XTH106*450P0A
17	400	300	12.5	125	170	215	130	- 40	+ 20	+ 35	152	315	1.125	2.080	XTV176*450P0A
25	400	300	12.5	135	182	230	150	- 40	+ 20	+ 35	164	315	1.125	2.080	XTV256*450P0A
540 WVDC at + 85°C															
4	480	360	16.6	55	82	110	540	- 35	+ 10	+ 20	114	250	.875	2.365	XTL405*540P0A
8	480	360	16.6	90	135	180	270	- 35	+ 10	+ 20	154	306	.875	3.532	XTH805*540P0A
14	480	300	15.0	120	162	205	160	- 40	+ 20	+ 35	178	309	1.125	2.435	XTV146*540P0A
20	480	300	15.0	135	182	230	170	- 40	+ 20	+ 35	196	309	1.125	2.435	XTV206*540P0A
630 WVDC at + 85°C															
3.5	560	420	18.9	55	82	110	630	- 35	+ 10	+ 20	133	249	.875	2.720	XTL355*630P0A
7	560	420	18.9	90	135	180	315	- 35	+ 10	+ 20	179	308	.875	4.062	XTH705*630P0A
12	560	420	17.5	120	162	205	180	- 40	+ 20	+ 35	204	306	1.125	2.810	XTV126T630P0A
18	560	420	17.5	135	182	230	200	- 40	+ 20	+ 35	225	306	1.125	2.810	XTV186*630P0A

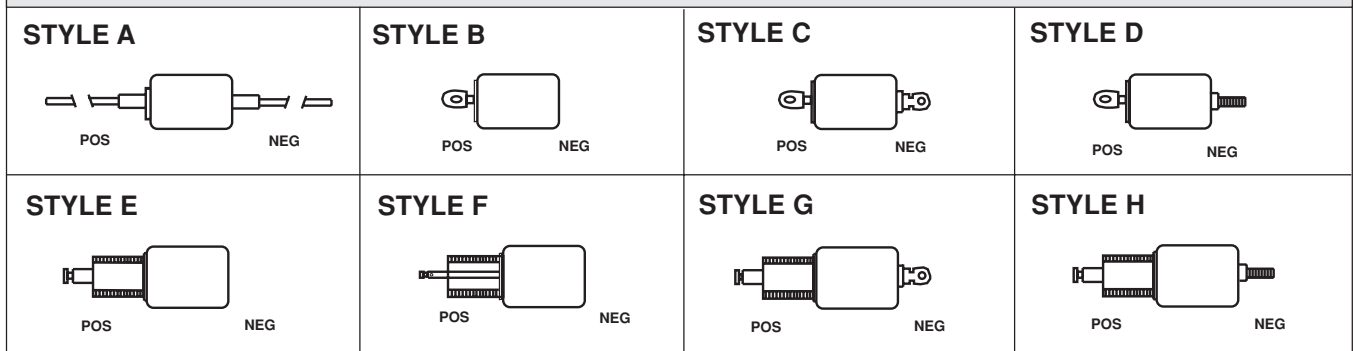
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 U = - 15 +75% (Standard for XTH, XTL)
 M = ± 20% (Available by Special Order)



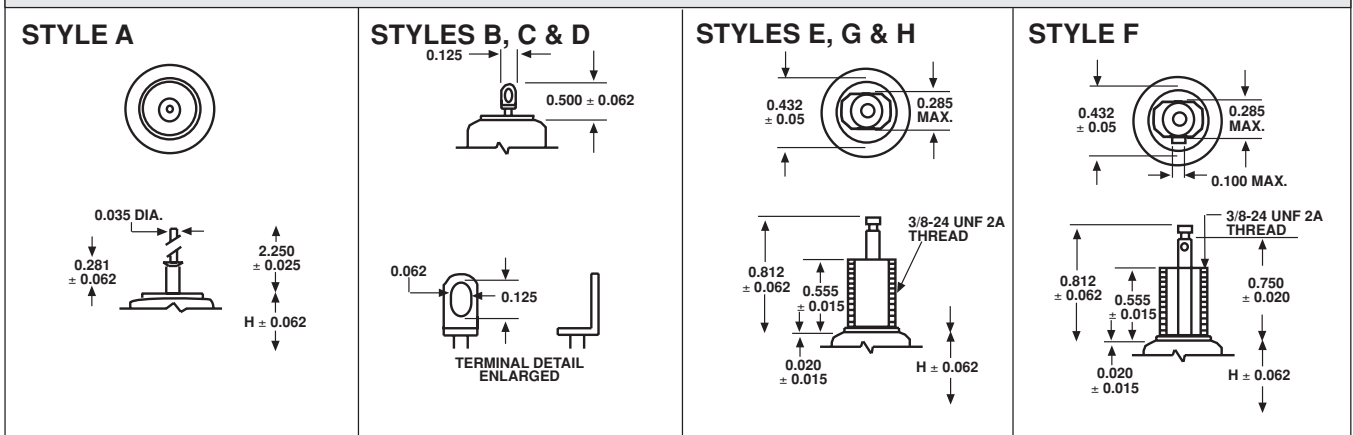
XTH-L-V STYLES



XTK-M STYLES



POSITIVE TERMINALS FOR XTK AND XTM



NEGATIVE TERMINALS FOR XTK AND XTM			
<p>STYLE A</p>	<p>STYLES B, E & F</p> <p>CASE NEGATIVE</p>	<p>STYLES C & G</p>	<p>STYLES D & H</p>

XTH, XTL AND XTV MOUNTING METHODS	
<p>DETAIL A</p> <p>TURRET TERMINAL DETAIL DIMENSIONS (POSITIVE LEAD CONNECTIONS) FOR CONFIGURATIONS A, B, C, D, E, F, G, H, J AND M</p>	<p>DETAIL B</p> <p>FOR CONFIGURATIONS K AND L</p>
<p>DETAIL C</p> <p>TAPPED 1/4-20UNC-2B HOLE OR INTERNAL TOOTH LOCKWASHER AND HEX NUT</p> <p>FOR CONFIGURATIONS E AND H</p>	<p>DETAIL D</p> <p>0.375 MIN.</p> <p>FOR CONFIGURATIONS F AND J</p>
<p>DETAIL E</p> <p>FOR CONFIGURATIONS K AND L</p>	