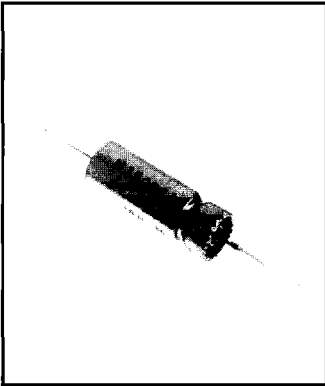


CLR79 (MIL-C-39006/22) Wet Tantalum Capacitors



Wet Tantalum Capacitors



- All Tantalum Case
- Hermetically Sealed
- Up to 3 Volts Reverse Capability
- Higher Ripple Current Capability
- Low DCL and ESR
- Rugged Construction
- Failure Rate Levels M, P and R

GENERAL SPECIFICATIONS

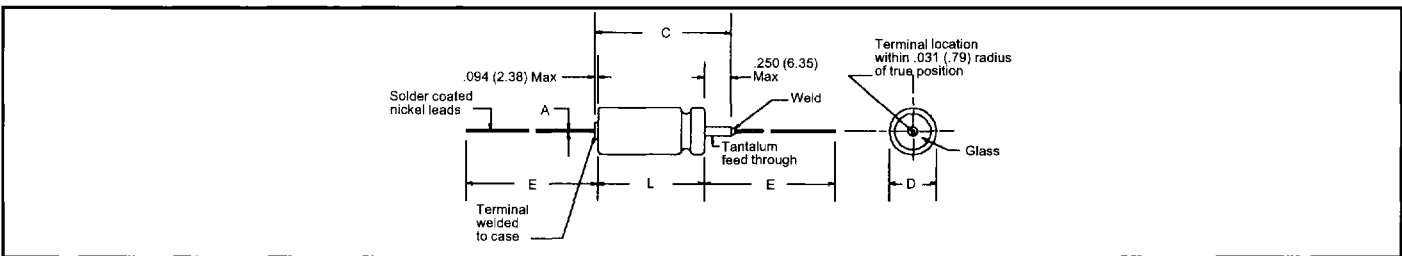
Operating Temperature:
-55°C to +125°C

Voltage Range:
6 to 125 VDC

Capacitance Range:
1.7 μ F to 1200 μ F

Tolerance Range:
 \pm 10%, \pm 20%
(\pm 5% by special order)

Case Sizes: (Four)
.188 x .453 to .375 x 1.062



Case Code	INCHES			(DIMENSIONS)				MILLIMETERS							
	Uninsulated D	Insulated L	C	A Lead Dia	E Lead Lgth	Approximate Weight (Grams)	Case Code	Uninsulated D	Insulated L	C	A Lead Dia	E Lead Lgth			
	\pm .016	\pm .031, \pm .016	Max	Max	Max			\pm .41	\pm .79, \pm .41	Max	Max	Max	Nom	AWG	\pm 6.35
T1	.188	.453	.219	.608	.734	2.0	T1	4.78	11.51	5.56	15.45	18.64	.64	#22	38.10
T2	.281	.641	.312	.796	.922	4.5	T2	7.41	16.28	7.92	20.22	23.41	.64	#22	57.15
T3	.375	.766	.406	.921	1.047	8.0	T3	9.53	19.46	10.31	23.40	26.59	.64	#22	57.15
T4	.375	1.062	.406	1.217	1.343	12.0	T4	9.53	26.97	10.31	30.91	34.11	.64	#22	57.15

Capacitance (μ F)	Cap Tol (\pm)	Maximum Working Voltage		Surge Voltage @ +85 C	Part Number MIL-C-39006/22 Failure Rate Level (% / 1 000 hrs)			Max DF (%)	Max Z 85 C (Ohms)	Maximum DC Leakage (mA)		Max. Ripple @ 85 C 40kHz (mA)	Maximum % Capacitance Change from Room Temperature			Case Code
		+85 C	+125 C		M (1.0)	P (0.1)	R (0.01)			+25 C	+85 C & +125 C		-55 C	+85 C	+125 C	

30	20	6	4	6.9	0001	0221	0441	9	100	1	2	820	-40	+10.5	+12	T1
30	10	6	4	6.9	0002	0222	0442	9	100	1	2	820	-40	+10.5	+12	T1
68	20	6	4	6.9	0004	0224	0444	15	60	1	2	960	-40	+14	+16	T1
68	10	6	4	6.9	0005	0225	0445	15	60	1	2	960	-40	+14	+16	T1
140	20	6	4	6.9	0007	0227	0447	21	40	1	3	1200	-40	+14	+16	T2
140	10	6	4	6.9	0008	0228	0448	21	40	1	3	1200	-40	+14	+16	T2
270	20	6	4	6.9	0010	0230	0450	45	25	1	6.5	1375	-44	+17.5	+20	T2
270	10	6	4	6.9	0011	0231	0451	45	25	1	6.5	1375	-44	+17.5	+20	T2
330	20	6	4	6.9	0013	0233	0453	36	20	2	7.9	1800	-44	+14	+16	T3
330	10	6	4	6.9	0014	0234	0454	36	20	2	7.9	1800	-44	+14	+16	T3
560	20	6	4	6.9	0016	0236	0456	55	25	2	13	1900	-64	+17.5	+20	T3
560	10	6	4	6.9	0017	0237	0457	55	25	2	13	1900	-64	+17.5	+20	T3
1200	20	6	4	6.9	0019	0239	0459	90	20	3	14	2265	-80	+25	+25	T4
1200	10	6	4	6.9	0020	0240	0460	90	20	3	14	2265	-80	+25	+25	T4
25	20	8	5	9.2	0021	0241	0461	7.5	100	1	2	820	-40	+10.5	+12	T1
25	10	8	5	9.2	0022	0242	0462	7.5	100	1	2	820	-40	+10.5	+12	T1
56	20	8	5	9.2	0024	0244	0464	14	59	1	2	900	-40	+14	+16	T1
56	10	8	5	9.2	0025	0245	0465	14	59	1	2	900	-40	+14	+16	T1
120	20	8	5	9.2	0027	0247	0467	20	50	1	2	1220	-44	+17.5	+20	T2
120	10	8	5	9.2	0028	0248	0468	20	50	1	2	1220	-44	+17.5	+20	T2
220	20	8	5	9.2	0030	0250	0470	37	30	1	7	1370	-44	+17.5	+20	T2
220	10	8	5	9.2	0031	0251	0470	37	30	1	7	1370	-44	+17.5	+20	T2
290	20	8	5	9.2	0033	0253	0473	34	25	2	6	1770	-64	+17.5	+20	T3
290	10	8	5	9.2	0034	0254	0474	34	25	2	6	1770	-64	+17.5	+20	T3
430	20	8	5	9.2	0036	0256	0476	46	25	2	14	1825	-64	+17.5	+20	T3
430	10	8	5	9.2	0037	0257	0477	46	25	2	14	1825	-64	+17.5	+20	T3
850	20	8	5	9.2	0039	0259	0479	60	22	4	16	2330	-80	+25	+25	T4
850	10	8	5	9.2	0040	0260	0480	60	22	4	16	2330	-80	+25	+25	T4

TO ORDER: Indicate the prefix CLR79 followed by the applicable MIL dash number
Example: For M39006/22-0251 order CLR790251. To obtain the optional vibration and shock requirements, add 'H' (CLR790251H)

CLR79 (MIL-C-39006/22) Wet Tantalum Capacitors



Wet Tantalum Capacitors

Capacitance [μF]	Cap Tol [±]	Maximum Working Voltage		Surge Voltage @ +85 C	Part Number MIL-C-39006/22 Failure Rate Level (% / 1 000 Hrs)			Max DF (%)	Max Z 85 C {Ohms}	Maximum DC Leakage (mA)		Max Ripple @ 85 C 40kHz (mA)	Maximum % Capacitance Change from Room Temperature			Case Code
		+85 C	+125 C		M (1.0)	P (0.1)	R (0.01)			+25 C	+85 C & +125 C		-55 C	+85 C	+125 C	
		160	20		50	30	57.5			0139	0359		0579	17	27	
160	10	50	30	57.5	0140	0360	0580	17	27	8	32	1900	-50	+25	+25	T4
4	20	60	40	69	0141	0381	0581	2.8	550	1	2	525	-16	+5	+6	T1
4	10	60	40	69	0142	0382	0582	2.8	550	1	2	525	-16	+5	+6	T1
8.2	20	60	40	69	0144	0384	0584	4	275	1	2	625	-24	+8	+9	T1
8.2	10	60	40	69	0145	0385	0585	4	275	1	2	625	-24	+8	+9	T1
20	20	60	40	69	0147	0387	0587	7	105	1	5	930	-16	+10.5	+12	T2
20	10	60	40	69	0148	0388	0588	7	105	1	5	930	-16	+10.5	+12	T2
39	20	60	40	69	0150	0390	0590	10	90	1	9	1110	-28	+10.5	+12	T2
39	10	60	40	69	0151	0391	0591	10	90	1	9	1110	-28	+10.5	+12	T2
50	20	60	40	69	0153	0393	0593	10	50	2	12	1330	-16	+10.5	+12	T3
50	10	60	40	69	0154	0394	0594	10	50	2	12	1330	-16	+10.5	+12	T3
68	20	60	40	69	0156	0376	0596	13	50	2	16	1365	-32	+10.5	+12	T3
68	10	60	40	69	0157	0377	0597	13	50	2	16	1365	-32	+10.5	+12	T3
140	20	60	40	69	0159	0379	0599	16	28	8	32	1850	-40	+20	+20	T4
140	10	60	40	69	0160	0380	0600	16	28	8	32	1850	-40	+20	+20	T4
3.5	20	75	50	86.2	0161	0381	0601	2.5	650	1	2	525	-16	+5	+6	T1
3.5	10	75	50	86.2	0162	0382	0602	2.5	650	1	2	525	-16	+5	+6	T1
6.8	20	75	50	86.2	0164	0384	0604	3.5	300	1	2	610	-20	+8	+9	T1
6.8	10	75	50	86.2	0165	0385	0605	3.5	300	1	2	610	-20	+8	+9	T1
15	20	75	50	86.2	0167	0387	0607	6	150	1	5	890	-16	+8	+9	T2
15	10	75	50	86.2	0168	0388	0608	6	150	1	5	890	-16	+8	+9	T2
33	20	75	50	86.2	0170	0390	0610	10	90	1	10	1000	-24	+10.5	+15	T2
33	10	75	50	86.2	0171	0391	0611	10	90	1	10	1000	-24	+10.5	+15	T2
40	20	75	50	86.2	0173	0393	0613	9	60	2	12	1250	-16	+10.5	+12	T3
40	10	75	50	86.2	0174	0394	0614	9	60	2	12	1250	-16	+10.5	+12	T3
56	20	75	50	86.2	0176	0396	0616	11	60	2	17	1335	-28	+10.5	+15	T3
56	10	75	50	86.2	0177	0397	0617	11	60	2	17	1335	-28	+10.5	+15	T3
110	20	75	50	86.2	0179	0399	0619	12	29	9	36	1850	-35	+20	+20	T4
110	10	75	50	86.2	0180	0400	0620	12	29	9	36	1850	-35	+20	+20	T4
2.5	20	100	65	115	0181	0401	0621	2	950	1	2	505	-16	+7	+8	T1
2.5	10	100	65	115	0182	0402	0622	2	950	1	2	505	-16	+7	+8	T1
4.7	20	100	65	115	0184	0404	0624	3	500	1	2	565	-16	+7	+8	T1
4.7	10	100	65	115	0185	0405	0625	3	500	1	2	565	-16	+7	+8	T1
11	20	100	65	115	0187	0407	0627	5	200	1	4	835	-16	+8	+8	T2
11	10	100	65	115	0188	0408	0628	5	200	1	4	835	-16	+8	+8	T2
22	20	100	65	115	0190	0410	0630	7.5	100	1	9	965	-16	+8	+8	T2
22	10	100	65	115	0191	0411	0632	7.5	100	1	9	965	-16	+8	+8	T2
30	20	100	65	115	0193	0413	0633	7	80	2	12	1240	-16	+8	+8	T3
30	10	100	65	115	0194	0414	0634	7	80	2	12	1240	-16	+8	+8	T3
43	20	100	65	115	0196	0416	0636	8.5	70	2	17	1335	-20	+8	+8	T3
43	10	100	65	115	0197	0417	0637	8.5	70	2	17	1335	-20	+8	+8	T3
86	20	100	65	115	0199	0419	0639	10	30	9	36	1800	-25	+15	+15	T4
86	10	100	65	115	0200	0420	0640	10	30	9	36	1800	-25	+15	+15	T4
1.7	20	125	85	144	0201	0421	0641	2	1250	1	2	415	-16	+7	+8	T1
1.7	10	125	85	144	0202	0422	0642	2	1250	1	2	415	-16	+7	+8	T1
3.6	20	125	85	144	0204	0424	0644	2.7	600	1	2	520	-16	+7	+8	T1
3.6	10	125	85	144	0205	0425	0645	2.7	600	1	2	520	-16	+7	+8	T1
9	20	125	85	144	0207	0427	0647	5	240	1	5	755	-16	+7	+8	T2
9	10	125	85	144	0208	0428	0648	5	240	1	5	755	-16	+7	+8	T2
14	20	125	85	144	0210	0430	0650	6	167	1	7	860	-16	+7	+8	T2
14	10	125	85	144	0211	0431	0651	6	167	1	7	860	-16	+7	+8	T2
18	20	125	85	144	0213	0433	0653	5	129	2	9	1130	-16	+7	+8	T3
18	10	125	85	144	0214	0434	0654	5	129	2	9	1130	-16	+7	+8	T3
25	20	125	85	144	0216	0436	0656	6	93	2	13	1200	-16	+7	+8	T3
25	10	125	85	144	0217	0437	0657	6	93	2	13	1200	-16	+7	+8	T3
56	20	125	85	144	0219	0439	0659	6.5	32	10	40	1800	-25	+15	+15	T4
56	10	125	85	144	0220	0440	0660	6.5	32	10	40	1800	-25	+15	+15	T4

TO ORDER: Indicate the prefix CLR79 followed by the applicable MIL dash number
 Example: For M39006/22-0251 order CLR790251. To obtain the optional vibration and shock requirements, add 'H' (CLR790251H)