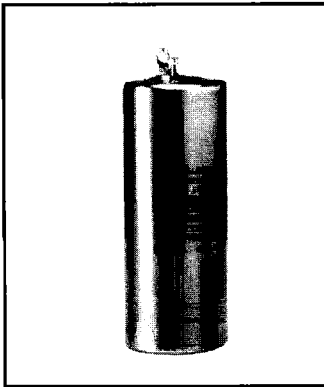


CLR17 (MIL-C-39006/20) Wet Tantalum Capacitors



Wet Tantalum Capacitors



- High Temperature
- High Voltage
- High Capacitance
- Withstands High Frequency Vibration to 2000 Hz
- Hermetically Sealed
- Long Shelf Life
- Failure Rate Levels L, M and P

GENERAL SPECIFICATIONS

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

Voltage Range:
30 to 630 VDC @ 85°C

Reverse Voltage:
None

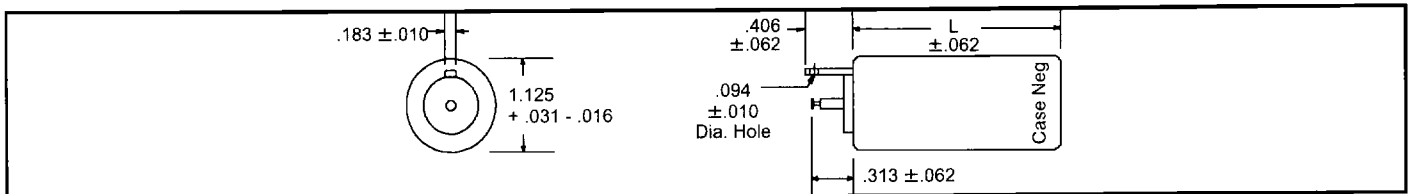
Capacitance Range:
12 μ F to 1300 μ F

Tolerance Ranges:
 \pm 20%
-15 +50%

$$ESR = \frac{10,000 \times DF}{6.28 \times f \times \mu F}$$

DF = Dissipation Factor %
f = Frequency in Hz

Case Sizes:
Diameter Length
1.125 .600 to 2.810



Capacitance (μ F)	Cap Tol	Maximum Working Voltage			Surge Voltage (@ +85 C)	Part Number MIL-C-39006/20 Failure Rate Level (% / 1,000 Hrs)			Max DF (%)	Max Z 85 C (Ohms)	Maximum DC Leakage (mA)			Maximum % Capacitance Change from Room Temperature 55 C	Dimension L \pm .062
		+85 C	+125 C	+85 C		L (2.0)	M (1.0)	P (0.1)			+25 C	+85 C	+125 C		
370	\pm 20	30	26	34.5	1000	1050	1100	39	15	18	125	170	-65	.600	
370	-10+50	30	26	34.5	1001	1051	1101	39	15	18	125	170	-65	.600	
650	\pm 20	30	26	34.5	1002	1052	1102	60	15	21	145	202	-85	1.100	
650	-10+50	30	26	34.5	1003	1053	1103	60	15	21	145	202	-85	1.100	
1300	\pm 20	30	26	34.5	1004	1054	1104	83	10	27	190	282	-85	1.100	
1300	-10+50	30	26	34.5	1005	1055	1105	83	10	27	190	282	-85	1.100	
200	\pm 20	60	52	69	1006	1056	1106	22	30	19	135	182	-50	.600	
200	-10+50	60	52	69	1007	1057	1107	22	30	19	135	182	-50	.600	
350	\pm 20	60	52	69	1008	1058	1108	37	25	22	155	210	-70	1.100	
350	-10+50	60	52	69	1009	1059	1109	37	25	22	155	210	-70	1.100	
700	\pm 20	60	52	69	1010	1060	1110	62	15	29	200	275	-70	1.100	
700	-10+50	60	52	69	1011	1061	1111	62	15	29	200	275	-70	1.100	
120	\pm 20	90	78	103	1012	1062	1112	13	40	19	135	182	-40	.600	
120	-10+50	90	78	103	1013	1063	1113	13	40	19	135	182	-40	.600	
220	\pm 20	90	78	103	1014	1064	1114	24	30	21	145	202	-60	1.100	
220	-10+50	90	78	103	1015	1065	1115	24	30	21	145	202	-60	1.100	
450	\pm 20	90	78	103	1016	1066	1116	45	25	29	195	215	-60	1.100	
450	-10+50	90	78	103	1017	1067	1117	45	25	29	195	215	-60	1.100	
42	\pm 20	180	155	207	1018	1068	1118	16	75	17	120	162	-40	.976	
42	-10+50	180	155	207	1019	1069	1119	16	75	17	120	162	-40	.976	
60	\pm 20	180	155	207	1020	1070	1120	13	60	19	135	182	-40	.976	
60	-10+50	180	155	207	1021	1071	1121	13	60	19	135	182	-40	.976	
110	\pm 20	180	155	207	1022	1072	1122	24	60	21	145	202	-60	1.938	
110	-10+50	180	155	207	1023	1073	1123	24	60	21	145	202	-60	1.938	
230	\pm 20	180	155	207	1024	1074	1124	46	50	29	200	275	-60	1.938	
230	-10+50	180	155	207	1025	1075	1125	46	50	29	200	275	-60	1.938	
28	\pm 20	270	235	310	1026	1076	1126	16	80	19	120	182	-40	1.350	
28	-10+50	270	235	310	1027	1077	1127	16	80	19	120	182	-40	1.350	
40	\pm 20	270	235	310	1028	1078	1128	22	100	19	135	182	-40	1.350	
40	-10+50	270	235	310	1029	1079	1129	22	100	19	135	182	-40	1.350	
75	\pm 20	270	235	310	1030	1080	1130	24	90	21	145	202	-60	2.812	
75	-10+50	270	235	310	1031	1081	1131	24	90	21	145	202	-60	2.812	
150	\pm 20	270	235	310	1032	1082	1132	45	75	28	195	215	-60	2.812	
150	-10+50	270	235	310	1033	1083	1133	45	75	28	195	215	-60	2.812	
22	\pm 20	360	310	414	1034	1084	1134	16	100	18	125	170	-40	1.705	
22	-10+50	360	310	414	1035	1085	1135	16	100	18	125	170	-40	1.705	
30	\pm 20	360	310	414	1036	1086	1136	22	120	19	135	182	-40	1.705	
30	-10+50	360	310	414	1037	1087	1137	22	120	19	135	182	-40	1.705	

TO ORDER: Indicate the prefix CLR17 followed by the applicable MIL dash number
Example: For M39006/20-1076 order CLR171076

CLR17 (MIL-C-39006/20) Wet Tantalum Capacitors



Wet Tantalum Capacitors

Capacitance (μ F)	Cap Tol	Maximum Working Voltage			Surge Voltage (@ +85 C)	Part Number MIL-C-39006/20 Failure Rate Level (% / 1,000 Hrs)			Max DF (%)	Max Z 85 C (Ohms)	Maximum DC Leakage (mA)			Maximum % Capacitance Change from Room Temperature -55 C	Dimension L \pm .062
		+85 C	+125 C	+85 C		L (2.0)	M (1.0)	P (0.1)			+25 C	+85 C	+125 C		
		17	\pm 20	450		390	518	1038			1088	1138	16		
17	-10+50	450	390	518	1039	1089	1139	16	130	18	125	170	-40	2.080	
25	\pm 20	450	390	518	1040	1090	1140	23	150	19	135	182	-40	2.080	
25	-10+50	450	390	518	1041	1091	1141	23	150	19	135	182	-40	2.080	
14	\pm 20	540	470	621	1042	1092	1142	16	160	17	120	162	-40	2.435	
14	-10+50	540	470	621	1043	1093	1143	16	160	17	120	162	-40	2.435	
20	\pm 20	540	470	621	1044	1094	1144	22	170	19	135	182	-40	2.435	
20	-10+50	540	470	621	1045	1095	1145	22	170	19	135	182	-40	2.435	
12	\pm 20	630	545	724	1046	1096	1146	16	180	17	120	162	-40	2.810	
12	-10+50	630	545	724	1047	1097	1147	16	180	17	120	162	-40	2.810	
18	\pm 20	630	545	724	1048	1098	1148	23	200	19	135	182	-40	2.810	
18	-10+50	630	545	724	1049	1099	1149	23	200	19	135	182	-40	2.810	

TO ORDER: Indicate the prefix CLR17 followed by the applicable MIL dash number
 Example: For M39006/20-1076 order CLR171076