

STANDARD/EXTENDED RATINGS: CLR79, M39006/22-XXXX

CAPACITANCE (μ F)	CASE CODE	CAP. TOL. (\pm %)	PART NO. M39006/22-* FAILURE RATE LEVEL (%/1000 h)			MAX. DCL (μ A) at + 25 °C + 125 °C	MAX. DF at + 25 °C + 125 °C	MAX. IMP. at - 55 °C (Ω)	MAX. CAPACITANCE CHANGE (%) at - 55 °C + 85 °C + 125 °C			MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA)	
			M 1.0	P 0.1	R 0.01	6 WVDC at + 85 °C . . . 4 WVDC at + 125 °C							
						+ 25 °C	+ 85 °C + 125 °C	+ 25 °C	- 55 °C				
6 WVDC at + 85 °C . . . 4 WVDC at + 125 °C													
30.0	T1	20	0001	0221	0441	1.0	2.0	9	100	- 40	+ 10.5	+ 12	820
30.0	T1	10	0002	0222	0442	1.0	2.0	9	100	- 40	+ 10.5	+ 12	820
30.0	T1	5	0003	0223	0443	1.0	2.0	9	100	- 40	+ 10.5	+ 12	820
68.0	T1	20	0004	0224	0444	1.0	2.0	15	60	- 40	+ 14	+ 16	960
68.0	T1	10	0005	0225	0445	1.0	2.0	15	60	- 40	+ 14	+ 16	960
68.0	T1	5	0006	0226	0446	1.0	2.0	15	60	- 40	+ 14	+ 16	960
140.0	T2	20	0007	0227	0447	1.0	3.0	21	40	- 40	+ 14	+ 16	1200
140.0	T2	10	0008	0228	0448	1.0	3.0	21	40	- 40	+ 14	+ 16	1200
140.0	T2	5	0009	0229	0449	1.0	3.0	21	40	- 40	+ 14	+ 16	1200
270.0	T2	20	0010	0230	0450	1.0	6.5	45	25	- 44	+ 17.5	+ 20	1375
270.0	T2	10	0011	0231	0451	1.0	6.5	45	25	- 44	+ 17.5	+ 20	1375
270.0	T2	5	0012	0232	0452	1.0	6.5	45	25	- 44	+ 17.5	+ 20	1375
330.0	T3	20	0013	0233	0453	2.0	7.9	36	20	- 44	+ 14	+ 16	1800
330.0	T3	10	0014	0234	0454	2.0	7.9	36	20	- 44	+ 14	+ 16	1800
330.0	T3	5	0015	0235	0455	2.0	7.9	36	20	- 44	+ 14	+ 16	1800
560.0	T3	20	0016	0236	0456	2.0	13.0	55	25	- 64	+ 17.5	+ 20	1900
560.0	T3	10	0017	0237	0457	2.0	13.0	55	25	- 64	+ 17.5	+ 20	1900
560.0	T3	5	0018	0238	0458	2.0	13.0	55	25	- 64	+ 17.5	+ 20	1900
1200.0	T4	20	0019	0239	0459	3.0	14.0	90	20	- 80	+ 25	+ 25	2265
1200.0	T4	10	0020	0240	0460	3.0	14.0	90	20	- 80	+ 25	+ 25	2265
8 WVDC at + 85 °C . . . 5 WVDC at + 125 °C													
25.0	T1	20	0021	0241	0461	1.0	2.0	7.5	100	- 40	+ 10.5	+ 12	820
25.0	T1	10	0022	0242	0462	1.0	2.0	7.5	100	- 40	+ 10.5	+ 12	820
25.0	T1	5	0023	0243	0463	1.0	2.0	7.5	100	- 40	+ 10.5	+ 12	820
56.0	T1	20	0024	0244	0464	1.0	2.0	14	59	- 40	+ 14	+ 16	900
56.0	T1	10	0025	0245	0465	1.0	2.0	14	59	- 40	+ 14	+ 16	900
56.0	T1	5	0026	0246	0466	1.0	2.0	14	59	- 40	+ 14	+ 16	900
120.0	T2	20	0027	0247	0467	1.0	2.0	20	50	- 44	+ 17.5	+ 20	1220
120.0	T2	10	0028	0248	0468	1.0	2.0	20	50	- 44	+ 17.5	+ 20	1220
120.0	T2	5	0029	0249	0469	1.0	2.0	20	50	- 44	+ 17.5	+ 20	1220
220.0	T2	20	0030	0250	0470	1.0	7.0	37	30	- 44	+ 17.5	+ 20	1370
220.0	T2	10	0031	0251	0471	1.0	7.0	37	30	- 44	+ 17.5	+ 20	1370
220.0	T2	5	0032	0252	0472	1.0	7.0	37	30	- 44	+ 17.5	+ 20	1370
290.0	T3	20	0033	0253	0473	2.0	6.0	34	25	- 64	+ 17.5	+ 20	1770
290.0	T3	10	0034	0254	0474	2.0	6.0	34	25	- 64	+ 17.5	+ 20	1770
290.0	T3	5	0035	0255	0475	2.0	6.0	34	25	- 64	+ 17.5	+ 20	1770
430.0	T3	20	0036	0256	0476	2.0	14.0	46	25	- 64	+ 17.5	+ 20	1825
430.0	T3	10	0037	0257	0477	2.0	14.0	46	25	- 64	+ 17.5	+ 20	1825
430.0	T3	5	0038	0258	0478	2.0	14.0	46	25	- 64	+ 17.5	+ 20	1825
850.0	T4	20	0039	0259	0479	4.0	16.0	60	22	- 80	+ 25	+ 25	2330
850.0	T4	10	0040	0260	0480	4.0	16.0	60	22	- 80	+ 25	+ 25	2330
10 WVDC at + 85 °C . . . 7 WVDC at + 125 °C													
20.0	T1	20	0041	0261	0481	1.0	2.0	6	175	- 32	+ 10.5	+ 12	820
20.0	T1	10	0042	0262	0482	1.0	2.0	6	175	- 32	+ 10.5	+ 12	820
20.0	T1	5	0043	0263	0483	1.0	2.0	6	175	- 32	+ 10.5	+ 12	820
47.0	T1	20	0044	0264	0484	1.0	2.0	13	100	- 36	+ 14	+ 16	855
47.0	T1	10	0045	0265	0485	1.0	2.0	13	100	- 36	+ 14	+ 16	855
47.0	T1	5	0046	0266	0486	1.0	2.0	13	100	- 36	+ 14	+ 16	855
100.0	T2	20	0047	0267	0487	1.0	4.0	15	60	- 36	+ 14	+ 16	1200
100.0	T2	10	0048	0268	0488	1.0	4.0	15	60	- 36	+ 14	+ 16	1200
100.0	T2	5	0049	0269	0489	1.0	4.0	15	60	- 36	+ 14	+ 16	1200
180.0	T2	20	0050	0270	0490	1.0	7.0	30	40	- 36	+ 14	+ 16	1365

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

**STANDARD/EXTENDED RATINGS: CLR79, M39006/22-XXXX**

CAPACITANCE (μ F)	CASE CODE	CAP. TOL. (\pm %)	PART NO. M39006/22-*			MAX. DCL (μ A) at $+ 25^\circ\text{C}$ $+ 125^\circ\text{C}$	MAX. DF at $+ 25^\circ\text{C}$ (%)	MAX. IMP. at $- 55^\circ\text{C}$ (Ω)	MAX. CAPACITANCE CHANGE (%) at			MAX.** RIPPLE CURRENT at $+ 85^\circ\text{C}$ 40 kHz (mA)	
			FAILURE RATE LEVEL (%/1000 h)										
			M 1.0	P 0.1	R 0.01	$+ 25^\circ\text{C}$	$+ 85^\circ\text{C}$	$+ 125^\circ\text{C}$	$- 55^\circ\text{C}$	$- 55^\circ\text{C}$	$+ 85^\circ\text{C}$	$+ 125^\circ\text{C}$	
10 WVDC at $+ 85^\circ\text{C}$. . . 7 WVDC at $+ 125^\circ\text{C}$													
180.0	T2	10	0051	0271	0491	1.0	7.0	30	40	- 36	+ 14	+ 16	1365
180.0	T2	5	0052	0272	0492	1.0	7.0	30	40	- 36	+ 14	+ 16	1365
250.0	T3	20	0053	0273	0493	2.0	10.0	30	30	- 40	+ 14	+ 16	1720
250.0	T3	10	0054	0274	0494	2.0	10.0	30	30	- 40	+ 14	+ 16	1720
250.0	T3	5	0055	0275	0495	2.0	10.0	30	30	- 40	+ 14	+ 16	1720
390.0	T3	20	0056	0276	0496	2.0	16.0	44	25	- 64	+ 17.5	+ 20	1800
390.0	T3	10	0057	0277	0497	2.0	16.0	44	25	- 64	+ 17.5	+ 20	1800
390.0	T3	5	0058	0278	0498	2.0	16.0	44	25	- 64	+ 17.5	+ 20	1800
750.0	T4	20	0059	0279	0499	4.0	16.0	50	23	- 80	+ 25	+ 25	2360
750.0	T4	10	0060	0280	0500	4.0	16.0	50	23	- 80	+ 25	+ 25	2360
15 WVDC at $+ 85^\circ\text{C}$. . . 10 WVDC at $+ 125^\circ\text{C}$													
15.0	T1	20	0061	0281	0501	1.0	2.0	5	155	- 24	+ 10.5	+ 12	780
15.0	T1	10	0062	0282	0502	1.0	2.0	5	155	- 24	+ 10.5	+ 12	780
15.0	T1	5	0063	0283	0503	1.0	2.0	5	155	- 24	+ 10.5	+ 12	780
33.0	T1	20	0064	0284	0504	1.0	2.0	10	90	- 28	+ 14	+ 16	820
33.0	T1	10	0065	0285	0505	1.0	2.0	10	90	- 28	+ 14	+ 16	820
33.0	T1	5	0066	0286	0506	1.0	2.0	10	90	- 28	+ 14	+ 16	820
70.0	T2	20	0067	0287	0507	1.0	4.0	13	75	- 28	+ 14	+ 16	1150
70.0	T2	10	0068	0288	0508	1.0	4.0	13	75	- 28	+ 14	+ 16	1150
70.0	T2	5	0069	0289	0509	1.0	4.0	13	75	- 28	+ 14	+ 16	1150
120.0	T2	20	0070	0290	0510	1.0	7.0	18	50	- 28	+ 17.5	+ 20	1450
120.0	T2	10	0071	0291	0511	1.0	7.0	18	50	- 28	+ 17.5	+ 20	1450
120.0	T2	5	0072	0292	0512	1.0	7.0	18	50	- 28	+ 17.5	+ 20	1450
170.0	T3	20	0073	0293	0513	2.0	10.0	25	35	- 32	+ 14	+ 16	1480
170.0	T3	10	0074	0294	0514	2.0	10.0	25	35	- 32	+ 14	+ 16	1480
170.0	T3	5	0075	0295	0515	2.0	10.0	25	35	- 32	+ 14	+ 16	1480
270.0	T3	20	0076	0296	0516	2.0	16.0	32	30	- 56	+ 17.5	+ 20	1740
270.0	T3	10	0077	0297	0517	2.0	16.0	32	30	- 56	+ 17.5	+ 20	1740
270.0	T3	5	0078	0298	0518	2.0	16.0	32	30	- 56	+ 17.5	+ 20	1740
540.0	T4	20	0079	0299	0519	6.0	24.0	40	23	- 80	+ 25	+ 25	2330
540.0	T4	10	0080	0300	0520	6.0	24.0	40	23	- 80	+ 25	+ 25	2330
25 WVDC at $+ 85^\circ\text{C}$. . . 15 WVDC at $+ 125^\circ\text{C}$													
10.0	T1	20	0081	0301	0521	1.0	2.0	4	220	- 16	+ 8	+ 9	715
10.0	T1	10	0082	0302	0522	1.0	2.0	4	220	- 16	+ 8	+ 9	715
10.0	T1	5	0083	0303	0523	1.0	2.0	4	220	- 16	+ 8	+ 9	715
22.0	T1	20	0084	0304	0524	1.0	2.0	6.6	140	- 20	+ 10.5	+ 12	825
22.0	T1	10	0085	0305	0525	1.0	2.0	6.6	140	- 20	+ 10.5	+ 12	825
22.0	T1	5	0086	0306	0526	1.0	2.0	6.6	140	- 20	+ 10.5	+ 12	825
50.0	T2	20	0087	0307	0527	1.0	2.0	11.0	70	- 28	+ 13	+ 15	1130
50.0	T2	10	0088	0308	0528	1.0	2.0	11.0	70	- 28	+ 13	+ 15	1130
50.0	T2	5	0089	0309	0529	1.0	2.0	11.0	70	- 28	+ 13	+ 15	1130
100.0	T2	20	0090	0310	0530	1.0	10.0	15	50	- 28	+ 13	+ 15	1435
100.0	T2	10	0091	0311	0531	1.0	10.0	15	50	- 28	+ 13	+ 15	1435
100.0	T2	5	0092	0312	0532	1.0	10.0	15	50	- 28	+ 13	+ 15	1435
120.0	T3	20	0093	0313	0533	2.0	6.0	21	38	- 32	+ 13	+ 15	1450
120.0	T3	10	0094	0314	0534	2.0	6.0	21	38	- 32	+ 13	+ 15	1450
120.0	T3	5	0095	0315	0535	2.0	6.0	21	38	- 32	+ 13	+ 15	1450
180.0	T3	20	0096	0316	0536	2.0	18.0	26	32	- 48	+ 13	+ 15	1525
180.0	T3	10	0097	0317	0537	2.0	18.0	26	32	- 48	+ 13	+ 15	1525
180.0	T3	5	0098	0318	0538	2.0	18.0	26	32	- 48	+ 13	+ 15	1525
350.0	T4	20	0099	0319	0539	7.0	28.0	35	24	- 70	+ 25	+ 25	1970
350.0	T4	10	0100	0320	0540	7.0	28.0	35	24	- 70	+ 25	+ 25	1970

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

STANDARD/EXTENDED RATINGS: CLR79, M39006/22-XXXX

CAPACITANCE (μ F)	CASE CODE	CAP. TOL. (\pm %)	PART NO. M39006/22-* FAILURE RATE LEVEL (%/1000 h)			MAX. DCL (μ A) at + 25 °C + 125 °C	MAX. DF at + 25 °C (%)	MAX. IMP. at - 55 °C (Ω)	MAX. CAPACITANCE CHANGE (%) at - 55 °C + 85 °C + 125 °C			MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA)	
			M 1.0	P 0.1	R 0.01				-	-	-		
			30 WVDC at + 85 °C . . . 20 WVDC at + 125 °C										
8.0	T1	20	0101	0321	0541	1.0	2.0	4	275	- 16	+ 8	+ 12	640
8.0	T1	10	0102	0322	0542	1.0	2.0	4	275	- 16	+ 8	+ 12	640
8.0	T1	5	0103	0323	0543	1.0	2.0	4	275	- 16	+ 8	+ 12	640
15.0	T1	20	0104	0324	0544	1.0	2.0	5	175	- 20	+ 10.5	+ 12	780
15.0	T1	10	0105	0325	0545	1.0	2.0	5	175	- 20	+ 10.5	+ 12	780
15.0	T1	5	0106	0326	0546	1.0	2.0	5	175	- 20	+ 10.5	+ 12	780
40.0	T2	20	0107	0327	0547	1.0	5.0	10	65	- 24	+ 10.5	+ 12	1120
40.0	T2	10	0108	0328	0548	1.0	5.0	10	65	- 24	+ 10.5	+ 12	1120
40.0	T2	5	0109	0329	0549	1.0	5.0	10	65	- 24	+ 10.5	+ 12	1120
68.0	T2	20	0110	0330	0550	1.0	8.0	13	60	- 24	+ 13	+ 15	1285
68.0	T2	10	0111	0331	0551	1.0	8.0	13	60	- 24	+ 13	+ 15	1285
68.0	T2	5	0112	0332	0552	1.0	8.0	13	60	- 24	+ 13	+ 15	1285
100.0	T3	20	0113	0333	0553	2.0	12.0	17	40	- 28	+ 10.5	+ 12	1450
100.0	T3	10	0114	0334	0554	2.0	12.0	17	40	- 28	+ 10.5	+ 12	1450
100.0	T3	5	0115	0335	0555	2.0	12.0	17	40	- 28	+ 10.5	+ 12	1450
150.0	T3	20	0116	0336	0556	2.0	18.0	23	35	- 48	+ 13	+ 15	1525
150.0	T3	10	0117	0337	0557	2.0	18.0	23	35	- 48	+ 13	+ 15	1525
150.0	T3	5	0118	0338	0558	2.0	18.0	23	35	- 48	+ 13	+ 15	1525
300.0	T4	20	0119	0339	0559	8.0	32.0	31	25	- 60	+ 25	+ 25	1950
300.0	T4	10	0120	0340	0560	8.0	32.0	31	25	- 60	+ 25	+ 25	1950
50 WVDC at + 85 °C . . . 30 WVDC at + 125 °C													
5.0	T1	20	0121	0341	0561	1.0	2.0	3	400	- 16	+ 5	+ 6	580
5.0	T1	10	0122	0342	0562	1.0	2.0	3	400	- 16	+ 5	+ 6	580
5.0	T1	5	0123	0343	0563	1.0	2.0	3	400	- 16	+ 5	+ 6	580
10.0	T1	20	0124	0344	0564	1.0	2.0	4	250	- 24	+ 8	+ 9	715
10.0	T1	10	0125	0345	0565	1.0	2.0	4	250	- 24	+ 8	+ 9	715
10.0	T1	5	0126	0346	0566	1.0	2.0	4	250	- 24	+ 8	+ 9	715
25.0	T2	20	0127	0347	0567	1.0	5.0	8	95	- 20	+ 10.5	+ 12	1005
25.0	T2	10	0128	0348	0568	1.0	5.0	8	95	- 20	+ 10.5	+ 12	1005
25.0	T2	5	0129	0349	0569	1.0	5.0	8	95	- 20	+ 10.5	+ 12	1005
47.0	T2	20	0130	0350	0570	1.0	9.0	11	70	- 28	+ 13	+ 15	1155
47.0	T2	10	0131	0351	0571	1.0	9.0	11	70	- 28	+ 13	+ 15	1155
47.0	T2	5	0132	0352	0572	1.0	9.0	11	70	- 28	+ 13	+ 15	1155
60.0	T3	20	0133	0353	0573	2.0	12.0	12	45	- 16	+ 10.5	+ 12	1335
60.0	T3	10	0134	0354	0574	2.0	12.0	12	45	- 16	+ 10.5	+ 12	1335
60.0	T3	5	0135	0355	0575	2.0	12.0	12	45	- 16	+ 10.5	+ 12	1335
82.0	T3	20	0136	0356	0576	2.0	16.0	15	45	- 32	+ 13	+ 15	1400
82.0	T3	10	0137	0357	0577	2.0	16.0	15	45	- 32	+ 13	+ 15	1400
82.0	T3	5	0138	0358	0578	2.0	16.0	15	45	- 32	+ 13	+ 15	1400
160.0	T4	20	0139	0359	0579	8.0	32.0	17	27	- 50	+ 25	+ 25	1900
160.0	T4	10	0140	0360	0580	8.0	32.0	17	27	- 50	+ 25	+ 25	1900
60 WVDC at + 85 °C . . . 40 WVDC at + 125 °C													
4.0	T1	20	0141	0361	0581	1.0	2.0	2.8	550	- 16	+ 5	+ 6	525
4.0	T1	10	0142	0362	0582	1.0	2.0	2.8	550	- 16	+ 5	+ 6	525
4.0	T1	5	0143	0363	0583	1.0	2.0	2.8	550	- 16	+ 5	+ 6	525
8.2	T1	20	0144	0364	0584	1.0	2.0	4	275	- 24	+ 8	+ 9	625
8.2	T1	10	0145	0365	0585	1.0	2.0	4	275	- 24	+ 8	+ 9	625
8.2	T1	5	0146	0366	0586	1.0	2.0	4	275	- 24	+ 8	+ 9	625
20.0	T2	20	0147	0367	0587	1.0	5.0	7	105	- 16	+ 10.5	+ 12	930
20.0	T2	10	0148	0368	0588	1.0	5.0	7	105	- 16	+ 10.5	+ 12	930
20.0	T2	5	0149	0369	0589	1.0	5.0	7	105	- 16	+ 10.5	+ 12	930
39.0	T2	20	0150	0370	0590	1.0	9.0	10	90	- 28	+ 10.5	+ 12	1110

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

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CAPACITANCE (μF)	CASE CODE	CAP. TOL. ($\pm \%$)	PART NO. M39006/22-* FAILURE RATE LEVEL (%/1000 h)			MAX. DCL (μA) at + 25 °C + 125 °C	MAX. DF at + 25 °C + 85 °C	MAX. IMP. at - 55 °C (Ω)	MAX.CAPACITANCE CHANGE (%) at			MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA)	
			M 1.0	P 0.1	R 0.01				- 55 °C + 85 °C + 125 °C	+ 85 °C + 125 °C	- 55 °C + 85 °C + 125 °C		
60 WVDC at + 85 °C ... 40 WVDC at + 125 °C													
39.0	T2	10	0151	0371	0591	1.0	9.0	10	90	- 28	+ 10.5	+ 12	1110
39.0	T2	5	0152	0372	0592	1.0	9.0	10	90	- 28	+ 10.5	+ 12	1110
50.0	T3	20	0153	0373	0593	2.0	12.0	10	50	- 16	+ 10.5	+ 12	1330
50.0	T3	10	0154	0374	0594	2.0	12.0	10	50	- 16	+ 10.5	+ 12	1330
50.0	T3	5	0155	0375	0595	2.0	12.0	10	50	- 16	+ 10.5	+ 12	1330
68.0	T3	20	0156	0376	0596	2.0	16.0	13	50	- 32	+ 10.5	+ 12	1365
68.0	T3	10	0157	0377	0597	2.0	16.0	13	50	- 32	+ 10.5	+ 12	1365
68.0	T3	5	0158	0378	0598	2.0	16.0	13	50	- 32	+ 10.5	+ 12	1365
140.0	T4	20	0159	0379	0599	8.0	32.0	16	28	- 40	+ 20	+ 20	1850
140.0	T4	10	0160	0380	0600	8.0	32.0	16	28	- 40	+ 20	+ 20	1850
75 WVDC at + 85 °C ... 50 WVDC at + 125 °C													
3.5	T1	20	0161	0381	0601	1.0	2.0	2.5	650	- 16	+ 5	+ 6	525
3.5	T1	10	0162	0382	0602	1.0	2.0	2.5	650	- 16	+ 5	+ 6	525
3.5	T1	5	0163	0383	0603	1.0	2.0	2.5	650	- 16	+ 5	+ 6	525
6.8	T1	20	0164	0384	0604	1.0	2.0	3.5	300	- 20	+ 8	+ 9	610
6.8	T1	10	0165	0385	0605	1.0	2.0	3.5	300	- 20	+ 8	+ 9	610
6.8	T1	5	0166	0386	0606	1.0	2.0	3.5	300	- 20	+ 8	+ 9	610
15.0	T2	20	0167	0387	0607	1.0	5.0	6	150	- 16	+ 8	+ 9	890
15.0	T2	10	0168	0388	0608	1.0	5.0	6	150	- 16	+ 8	+ 9	890
15.0	T2	5	0169	0389	0609	1.0	5.0	6	150	- 16	+ 8	+ 9	890
33.0	T2	20	0170	0390	0610	1.0	10.0	10	90	- 24	+ 10.5	+ 15	1000
33.0	T2	10	0171	0391	0611	1.0	10.0	10	90	- 24	+ 10.5	+ 15	1000
33.0	T2	5	0172	0392	0612	1.0	10.0	10	90	- 24	+ 10.5	+ 15	1000
40.0	T3	20	0173	0393	0613	2.0	12.0	9	60	- 16	+ 10.5	+ 12	1250
40.0	T3	10	0174	0394	0614	2.0	12.0	9	60	- 16	+ 10.5	+ 12	1250
40.0	T3	5	0175	0395	0615	2.0	12.0	9	60	- 16	+ 10.5	+ 12	1250
56.0	T3	20	0176	0396	0616	2.0	17.0	11	60	- 28	+ 10.5	+ 15	1335
56.0	T3	10	0177	0397	0617	2.0	17.0	11	60	- 28	+ 10.5	+ 15	1335
56.0	T3	5	0178	0398	0618	2.0	17.0	11	60	- 28	+ 10.5	+ 15	1335
110.0	T4	20	0179	0399	0619	9.0	36.0	12	29	- 35	+ 20	+ 20	1850
110.0	T4	10	0180	0400	0620	9.0	36.0	12	29	- 35	+ 20	+ 20	1850
100 WVDC at + 85 °C ... 65 WVDC at + 125 °C													
2.5	T1	20	0181	0401	0621	1.0	2.0	2	950	- 16	+ 7	+ 8	505
2.5	T1	10	0182	0402	0622	1.0	2.0	2	950	- 16	+ 7	+ 8	505
2.5	T1	5	0183	0403	0623	1.0	2.0	2	950	- 16	+ 7	+ 8	505
4.7	T1	20	0184	0404	0624	1.0	2.0	3	500	- 16	+ 7	+ 8	565
4.7	T1	10	0185	0405	0625	1.0	2.0	3	500	- 16	+ 7	+ 8	565
4.7	T1	5	0186	0406	0626	1.0	2.0	3	500	- 16	+ 7	+ 8	565
11.0	T2	20	0187	0407	0627	1.0	4.0	5	200	- 16	+ 8	+ 8	835
11.0	T2	10	0188	0408	0628	1.0	4.0	5	200	- 16	+ 8	+ 8	835
11.0	T2	5	0189	0409	0629	1.0	4.0	5	200	- 16	+ 8	+ 8	835
22.0	T2	20	0190	0410	0630	1.0	9.0	7.5	100	- 16	+ 8	+ 8	965
22.0	T2	10	0191	0411	0631	1.0	9.0	7.5	100	- 16	+ 8	+ 8	965
22.0	T2	5	0192	0412	0632	1.0	9.0	7.5	100	- 16	+ 8	+ 8	965
30.0	T3	20	0193	0413	0633	2.0	12.0	7	80	- 16	+ 8	+ 8	1240
30.0	T3	10	0194	0414	0634	2.0	12.0	7	80	- 16	+ 8	+ 8	1240
30.0	T3	5	0195	0415	0635	2.0	12.0	7	80	- 16	+ 8	+ 8	1240
43.0	T3	20	0196	0416	0636	2.0	17.0	8.5	70	- 20	+ 8	+ 8	1335
43.0	T3	10	0197	0417	0637	2.0	17.0	8.5	70	- 20	+ 8	+ 8	1335
43.0	T3	5	0198	0418	0638	2.0	17.0	8.5	70	- 20	+ 8	+ 8	1335
86.0	T4	20	0199	0419	0639	9.0	36.0	10	30	- 25	+ 15	+ 15	1800
86.0	T4	10	0200	0420	0640	9.0	36.0	10	30	- 25	+ 15	+ 15	1800

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

**STANDARD/EXTENDED RATINGS: CLR79, M39006/22-XXXX**

CAPACITANCE (μ F)	CASE CODE	CAP. TOL. (\pm %)	PART NO. M39006/22-* FAILURE RATE LEVEL (%/1000 h)			MAX. DCL (μ A) at + 25 °C + 125 °C	MAX. DF at + 25 °C + 25 °C	MAX. IMP. at - 55 °C (Ω)	MAX. CAPACITANCE CHANGE (%) at - 55 °C + 85 °C + 125 °C			MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA)	
			M	P	R				- 55 °C	+ 85 °C	+ 125 °C		
			1.0	0.1	0.01				- 55 °C	+ 85 °C	+ 125 °C		
125 WVDC at + 85 °C . . . 85 WVDC at + 125 °C													
1.7	T1	20	0201	0421	0641	1.0	2.0	2	1250	- 16	+ 7	+ 8	415
1.7	T1	10	0202	0422	0642	1.0	2.0	2	1250	- 16	+ 7	+ 8	415
1.7	T1	5	0203	0423	0643	1.0	2.0	2	1250	- 16	+ 7	+ 8	415
3.6	T1	20	0204	0424	0644	1.0	2.0	2.7	600	- 16	+ 7	+ 8	520
3.6	T1	10	0205	0425	0645	1.0	2.0	2.7	600	- 16	+ 7	+ 8	520
3.6	T1	5	0206	0426	0646	1.0	2.0	2.7	600	- 16	+ 7	+ 8	520
9.0	T2	20	0207	0427	0647	1.0	5.0	5	240	- 16	+ 7	+ 8	755
9.0	T2	10	0208	0428	0648	1.0	5.0	5	240	- 16	+ 7	+ 8	755
9.0	T2	5	0209	0429	0649	1.0	5.0	5	240	- 16	+ 7	+ 8	755
14.0	T2	20	0210	0430	0650	1.0	7.0	6	167	- 16	+ 7	+ 8	860
14.0	T2	10	0211	0431	0651	1.0	7.0	6	167	- 16	+ 7	+ 8	860
14.0	T2	5	0212	0432	0652	1.0	7.0	6	167	- 16	+ 7	+ 8	860
18.0	T3	20	0213	0433	0653	2.0	9.0	5	129	- 16	+ 7	+ 8	1130
18.0	T3	10	0214	0434	0654	2.0	9.0	5	129	- 16	+ 7	+ 8	1130
18.0	T3	5	0215	0435	0655	2.0	9.0	5	129	- 16	+ 7	+ 8	1130
25.0	T3	20	0216	0436	0656	2.0	13.0	6	93	- 16	+ 7	+ 8	1200
25.0	T3	10	0217	0437	0657	2.0	13.0	6	93	- 16	+ 7	+ 8	1200
25.0	T3	5	0218	0438	0658	2.0	13.0	6	93	- 16	+ 7	+ 8	1200
56.0	T4	20	0219	0439	0659	10.0	40.0	6.5	32	- 25	+ 15	+ 15	1800
56.0	T4	10	0220	0440	0660	10.0	40.0	6.5	32	- 25	+ 15	+ 15	1800

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.

STANDARD/EXTENDED RATINGS: CLR81, M39006/25-XXXX

CAPACITANCE (μ F)	CASE CODE	CAP. TOL. (\pm %)	PART NO. M39006/25-* FAILURE RATE LEVEL (%/1000 h)			MAX. DCL (μ A) at + 25 °C + 125 °C	MAX. DF at + 25 °C + 25 °C	MAX. IMP. at - 55 °C (Ω)	MAX. CAPACITANCE CHANGE (%) at - 55 °C + 85 °C + 125 °C			MAX.** RIPPLE CURRENT at + 85 °C 40 kHz (mA)	
			M	P	R				- 55 °C	+ 85 °C	+ 125 °C		
			1.0	0.1	0.01				- 55 °C	+ 85 °C	+ 125 °C		
6 WVDC at + 85 °C . . . 4 WVDC at + 125 °C													
220.0	T1	20	0001	0089	0177	2.0	9.0	50	36	- 64	+ 13	+ 16	1000
220.0	T1	10	0002	0090	0178	2.0	9.0	50	36	- 64	+ 13	+ 16	1000
820.0	T2	20	0003	0091	0179	3.0	14.0	155	18	- 88	+ 16	+ 20	1500
820.0	T2	10	0004	0092	0180	3.0	14.0	155	18	- 88	+ 16	+ 20	1500
1500.0	T3	20	0005	0093	0181	5.0	20.0	172	18	- 90	+ 20	+ 25	1900
1500.0	T3	10	0006	0094	0182	5.0	20.0	172	18	- 90	+ 20	+ 25	1900
2200.0	T4	20	0007	0095	0183	6.0	24.0	170	13	- 90	+ 25	+ 30	2300
2200.0	T4	10	0008	0096	0184	6.0	24.0	170	13	- 90	+ 25	+ 30	2300
8 WVDC at + 85 °C . . . 5 WVDC at + 125 °C													
180.0	T1	20	0009	0097	0185	2.0	9.0	41	45	- 60	+ 13	+ 16	1000
180.0	T1	10	0010	0098	0186	2.0	9.0	41	45	- 60	+ 13	+ 16	1000
680.0	T2	20	0011	0099	0187	3.0	14.0	130	22	- 83	+ 16	+ 20	1500
680.0	T2	10	0012	0100	0188	3.0	14.0	130	22	- 83	+ 16	+ 20	1500
1500.0	T3	20	0013	0101	0189	5.0	20.0	170	18	- 90	+ 20	+ 25	1900
1500.0	T3	10	0014	0102	0190	5.0	20.0	170	18	- 90	+ 20	+ 25	1900
1800.0	T4	20	0015	0103	0191	7.0	25.0	138	14	- 90	+ 25	+ 30	2300
1800.0	T4	10	0016	0104	0192	7.0	25.0	138	14	- 90	+ 25	+ 30	2300

Notes

* Dash number will include the letter "H" to indicate the optional vibration and shock requirements (i.e., 51 g random vibration, 80 g sinusoidal vibration and 500 g shock).

** For ripple current limits at various temperatures, voltages and frequencies, see Ripple Current Table.