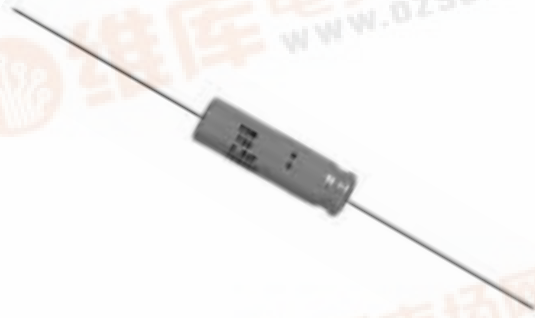


Type 556 105 °C, Computer Grade, Axial Leaded, Aluminum

105 °C Computer Grade

[查询"556330M0635B2"供应商](#)



Type 556 capacitors are designed for data processing, telecom and instrumentation applications requiring smaller size with extended temperature range. They have longer life and up to twice the ripple capability of +85 °C capacitors.

Highlights

- ◆ Small size
- ◆ Extended life
- ◆ Extended temperature
- ◆ Twice ripple capability of +85 °C capacitors
- ◆ Designed for data processing, telecom and instrumentation applications

Specifications

Operating Temperature Range:	-40 °C to +105 °C
Rated Voltage Range:	6.3 to 450 Vdc
Capacitance:	1.5 μF to 6,800 μF
Capacitance Tolerance:	±20%
Leakage Current:	3-20 Vdc $0.1 \sqrt{CV} + 2 \mu\text{A}$ 25 Vdc & up $0.2 \sqrt{CV} + 2 \mu\text{A}$
Ripple Current:	Ambient Temperature

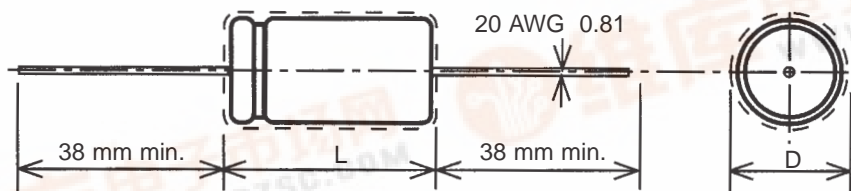
45 °C	55 °C	65 °C	75 °C	85 °C	95 °C	105 °C
1.50	1.46	1.32	1.17	1.00	0.79	0.50

Frequency

	50 Hz	60 Hz	120 Hz	360 Hz	1 kHz	5 kHz	10 kHz+
0-60 Vdc	0.85	1.00	1.10	1.15	1.15	1.15	1.15
61-150 Vdc	0.83	1.00	1.15	1.20	1.20	1.20	1.20

Load Life:	4,000 h @ +105 °C, capacitance ±20%, ESR 200% of limit, DCL 100% of limit
Shelf Life:	100 h at 105 °C, capacitance, ESR & DCL, initial requirements.
Vibration:	10 to 55 Hz; 0.06" and 10 g max, 2 h. in each plane

Outline Drawings

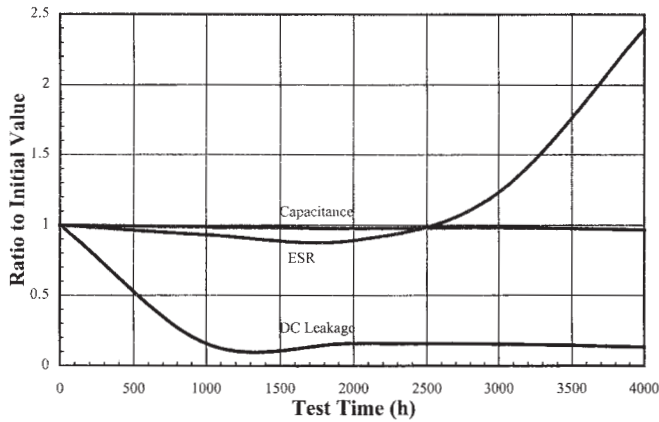


Type 556 105 °C, Computer Grade, Axial Leaded, Aluminum

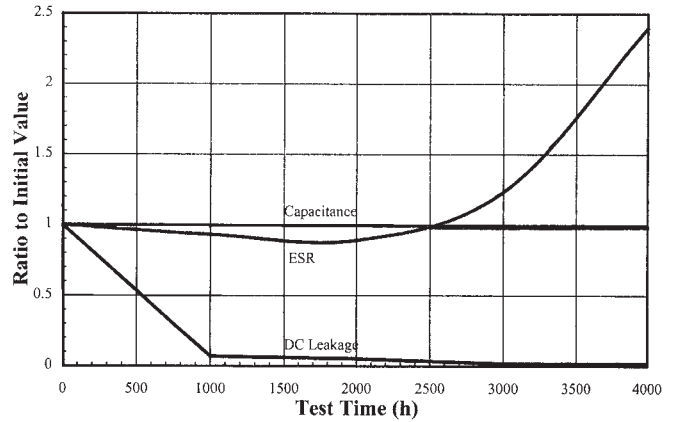
Typical Performance Curves

[查询 556330M063BB2 供应商](#)

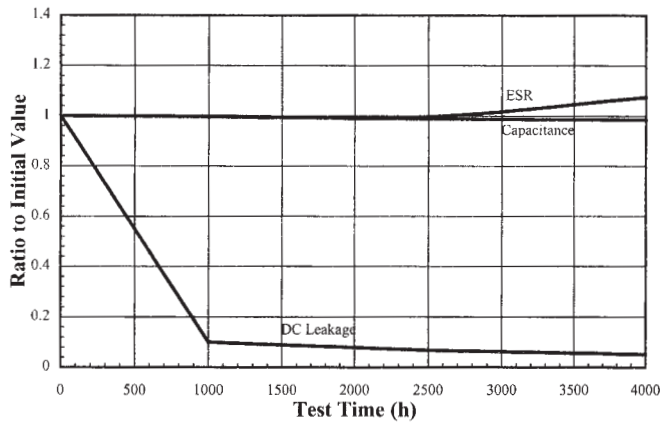
Life Test 150 μ F 16 V 105 °C, 556151U016DD2



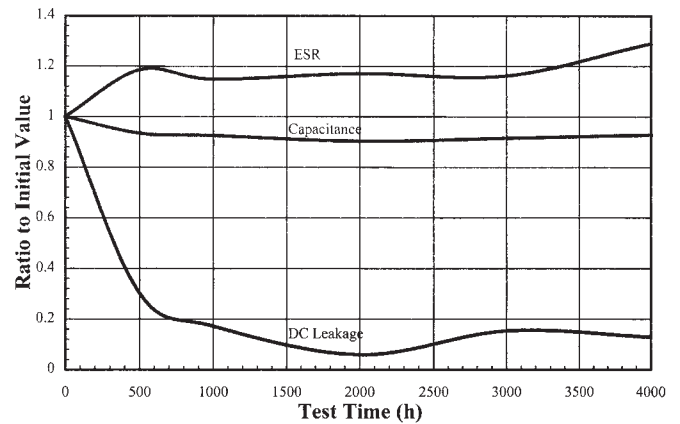
Life Test 50 μ F 50 V 105 °C, 556500U050DD2



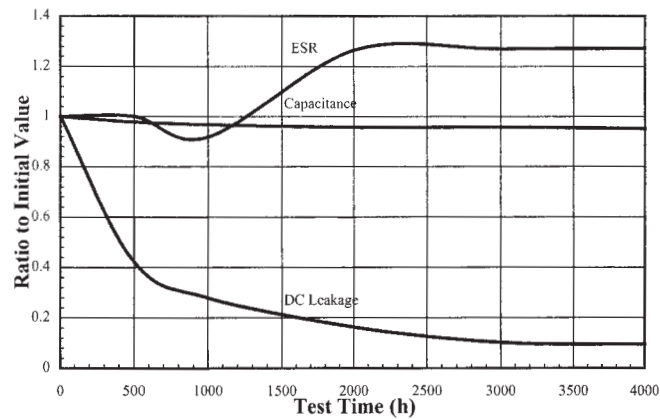
Life Test 10 μ F 150 V 105 °C, 556100U150DD2



Life Test 15 μ F 450 V 105 °C, 556150U450FH2



Life Test 22 μ F 450 V 105 °C, 556220U450LV2



Type 556 105 °C, Computer Grade, Axial Leaded, Aluminum

Case Dimensions

[查询 556330M063BB2 供应商](#)

Case Code	Millimeters					
	Nominal		Insulated		Insulated with Epoxy Endseal	
	Diameter (mm)	Length (mm)	Diameter (max)	Length (max)	Diameter (max)	Length (max)
BA	6.3	13.0	7.0	14.4	7.0	15.9
BB	6.3	17.5	7.0	19.2	7.0	20.7
CB	8.0	17.5	8.6	19.2	8.6	20.7
CC	8.0	20.5	8.6	22.3	8.6	23.8
DC	9.5	20.5	10.2	22.3	10.2	23.8
DD	9.5	24.0	10.2	25.5	10.2	27.0
DF	9.5	32.0	10.2	33.5	10.2	35.0
DH	9.5	38.0	10.2	39.8	10.2	41.3
MF	11.0	32.0	11.8	33.8	11.8	35.0
MH	11.0	38.0	11.8	39.8	13.1	41.3
EH	12.5	38.0	13.1	39.8	13.1	41.3
ER	12.5	44.0	13.1	46.5	13.1	48.0
FH	16.0	38.0	16.6	39.8	16.6	41.3
FR	16.0	44.5	16.6	46.5	16.6	48.0
LV	18.0	40.0	18.7	42.5	18.7	43.0

Part Numbering System

556	123	M	6R3	LV	2	E
Type	Capacitance	Tolerance	Voltage	Case Code	Insulation	Epoxy Endseal
	6R8=6.8 μF 680=68 μF 681=680 μF 682=6800 μF 123=12,000 μF	M=±20%	6R3=6.3 Vdc 063=63 Vdc 100=100 Vdc		0=Bare Can 1=Polyester 2=PVC	E = Epoxy Endseal (blank) = No Epoxy

Ratings

Cap. μF	Catalog Number	ESR Max.Ω 120 Hz	Ripple A @ 85 °C 120 Hz	Nominal Size (mm) D x L
6.3 Vdc (8 Vdc Surge)				
120	556121M6R3BA2	3.60	0.109	6.3 x 13
220	556221M6R3BB2	2.00	0.180	6.3 x 17.5
330	556331M6R3CB2	1.29	0.255	8 x 17.5
470	556471M6R3CC2	1.00	0.338	8 x 20.5
820	556821M6R3DC2	0.64	0.480	9.5 x 20.5
1200	556122M6R3DD2	0.37	0.570	9.5 x 24
1800	556182M6R3DF2	0.27	0.800	9.5 x 32
2200	556222M6R3DH2	0.23	1.080	9.5 x 38
3900	556392M6R3MH2	0.16	1.280	11 x 38
4700	556472M6R3EH2	0.13	1.640	12.5 x 38
5600	556562M6R3ER2	0.12	1.780	12.5 x 44.5
6800	556682M6R3FH2	0.10	2.000	16 x 38
10000	556103M6R3FR2	0.09	2.350	16 x 44.5
12000	556123M6R3LV2	0.08	2.580	18 x 44.5
10 Vdc (12 Vdc Surge)				
100	556101M010BA2	3.70	0.109	6.3 x 13
180	556181M010BB2	2.08	0.175	6.3 x 17.5
270	556271M010CB2	1.60	0.250	8 x 17.5
390	556391M010CC2	0.96	0.350	8 x 20.5
680	556681M010DC2	0.57	0.440	9.5 x 20.5

Cap. μF	Catalog Number	ESR Max.Ω 120 Hz	Ripple A @ 85 °C 120 Hz	Nominal Size (mm) D x L
10 Vdc (12 Vdc Surge) (cont'd)				
1000	556102M010DD2	0.41	0.560	9.5 x 24
1500	556152M010DF2	0.30	0.785	9.5 x 32
1800	556182M010DH2	0.27	1.030	9.5 x 38
2200	556222M010MF2	0.19	1.160	11 x 32
3300	556332M010EH2	0.14	1.600	12.5 x 38
3300	556332M010MH2	0.15	1.380	11 x 38
4700	556472M010ER2	0.12	1.780	12.5 x 44.5
5600	556562M010FH2	0.10	2.000	16 x 38
8200	556822M010FR2	0.09	2.340	16 x 44.5
10000	556103M010LV2	0.08	2.550	18 x 40
12 Vdc (15 Vdc Surge)				
100	556101M012BA2	3.71	0.108	6.3 x 13
180	556181M012BB2	2.12	0.168	6.3 x 17.5
220	556221M012CB2	1.65	0.245	8 x 17.5
390	556391M012CC2	1.00	0.330	8 x 20.5
560	556561M012DC2	0.66	0.425	9.5 x 20.5
820	556821M012DD2	0.45	0.550	9.5 x 24
1200	556122M012DF2	0.32	0.760	9.5 x 32
1500	556152M012DH2	0.28	0.955	9.5 x 38

Type 556 105 °C, Computer Grade, Axial Leaded, Aluminum

查询"556330M063BB2"供应商

Cap. μ F	Catalog Number	ESR Max. Ω 120 Hz	Ripple A @ 85 °C 120 Hz	Nominal Size (mm) D x L
80 Vdc (100 Vdc Surge) (cont'd)				
47	556470M080DC2	3.38	0.205	9.5 x 20.5
68	556680M080DD2	2.34	0.260	9.5 x 24
100	556101M080DF2	1.59	0.357	9.5 x 32
120	556121M080DH2	1.33	0.435	9.5 x 38
150	556151M080MF2	1.06	0.480	11 x 32
220	556221M080EH2	0.72	0.680	12.5 x 38
220	556221M080MH2	1.06	0.527	11 x 38
270	556271M080ER2	0.58	0.850	12.5 x 44.5
390	556391M080FH2	0.41	1.030	16 x 38
470	556471M080FR2	0.34	1.210	16 x 44.5
680	556681M080LV2	0.23	1.490	18 x 44.5
100 Vdc (125 Vdc Surge)				
3.9	5563R9M100BA2	40.70	0.035	6.3 x 13
6.8	5566R8M100BB2	23.70	0.054	6.3 x 17.5
12	556120M100CB2	13.30	0.080	8 x 17.5
15	556150M100CC2	10.60	0.100	8 x 20.5
33	556330M100DC2	4.81	0.145	9.5 x 20.5
47	556470M100DD2	3.38	0.205	9.5 x 24
68	556680M100DF2	2.33	0.280	9.5 x 32
100	556101M100DH2	1.59	0.385	9.5 x 38
150	556151M100EH2	1.06	0.585	12.5 x 38
150	556151M100MH2	1.06	0.505	11 x 38
220	556221M100ER2	0.72	0.715	12.5 x 44.5
390	556391M100FR2	0.40	1.110	16 x 44.5
470	556471M100LV2	0.34	1.240	18 x 40
150 Vdc (170 Vdc Surge)				
1.5	5561R5M150BA2	110.00	0.023	6.3 x 13
2.7	5562R7M150BB2	60.00	0.036	6.3 x 17.5
3.3	5563R3M150CB2	49.00	0.045	8 x 17.5
6.8	5566R8M150CC2	24.00	0.070	8 x 20.5
12	556120M150DC2	13.30	0.100	9.5 x 20.5
15	556150M150DD2	11.00	0.120	9.5 x 24
22	556220M150DF2	7.30	0.165	9.5 x 32
33	556330M150DH2	4.90	0.225	9.5 x 38
47	556470M150MH2	3.38	0.290	11 x 38
56	556560M150EH2	3.08	0.325	12.5 x 38
68	556680M150ER2	2.34	0.380	12.5 x 44.5
120	556121M150FR2	1.34	0.580	16 x 44.5
150	556151M150LV2	1.10	0.668	18 x 40
200 Vdc (250 Vdc Surge)				
1.2	5561R2M200BA2	132.00	0.022	6.3 x 13
2.7	5562R7M200BB2	60.00	0.035	6.3 x 17.5
3.3	5563R3M200CB2	50.00	0.045	8 x 17.5
5.6	5565R6M200CC2	28.00	0.065	8 x 20.5
10	556100M200DC2	15.90	0.090	9.5 x 20.5
12	556120M200DD2	12.00	0.105	9.5 x 24
18	556180M200DF2	9.10	0.150	9.5 x 32
27	556270M200DH2	6.00	0.200	9.5 x 38
39	556390M200EH2	4.00	0.288	12.5 x 38
39	556390M200MH2	4.50	0.250	11 x 38
56	556560M200ER2	2.85	0.350	12.5 x 44.5
68	556680M200FH2	2.36	0.425	16 x 38
100	556101M200FR2	1.60	0.550	16 x 44.5
120	556121M200LV2	1.33	0.610	18 x 40
250 Vdc (300 Vdc Surge)				
1	5561R0M250BA2	161.00	0.021	6.3 x 13
1.8	5561R8M250BB2	88.00	0.031	6.3 x 17.5
2.2	5562R2M250CB2	73.00	0.037	8 x 17.5
3.3	5563R3M250CC2	48.00	0.049	8 x 20.5

Cap. μ F	Catalog Number	ESR Max. Ω 120 Hz	Ripple A @ 85 °C 120 Hz	Nominal Size (mm) D x L
250 Vdc (300 Vdc Surge) (cont'd)				
6.8	5566R8M250DC2	23.50	0.078	9.5 x 20.5
8.2	5568R2M250DD2	19.40	0.090	9.5 x 24
12	556120M250DF2	13.20	0.125	9.5 x 32
18	556180M250DH2	8.80	0.165	9.5 x 38
27	556270M250MH2	6.00	0.215	11 x 38
33	556330M250EH2	4.80	0.240	12.5 x 38
39	556390M250ER2	4.00	0.305	12.5 x 44.5
68	556680M250FR2	2.30	0.425	16 x 44.5
82	556820M250LV2	2.00	0.500	18 x 40
300 Vdc (360 Vdc Surge)				
0.68	556R68M300BA2	235.00	0.016	6.3 x 13
1.2	5561R2M300BB2	133.00	0.024	6.3 x 17.5
1.5	5561R5M300CB2	107.00	0.030	8 x 17.5
2.2	5562R2M300CC2	73.00	0.040	8 x 20.5
3.9	5563R9M300DC2	41.00	0.055	9.5 x 20.5
5.6	5565R6M300DD2	28.60	0.070	9.5 x 24
8.2	5568R2M300DF2	19.50	0.100	9.5 x 32
10	556100M300DH2	16.00	0.120	9.5 x 38
18	556180M300MH2	8.90	0.175	11 x 38
22	556220M300EH2	7.27	0.200	12.5 x 38
27	556270M300ER2	5.90	0.250	12.5 x 44.5
47	556470M300FR2	3.40	0.375	16 x 44.5
68	556680M300LV2	2.40	0.450	18 x 40
350 Vdc (400 Vdc Surge)				
0.56	556R56M350BA2	284.00	0.014	6.3 x 13
1	5561R0M350BB2	159.00	0.022	6.3 x 17.5
1.2	5561R2M350CB2	132.00	0.027	8 x 17.5
1.8	5561R8M350CC2	88.40	0.036	8 x 20.5
3.3	5563R3M350DC2	48.00	0.054	9.5 x 20.5
4.7	5564R7M350DD2	33.80	0.065	9.5 x 24
6.8	5566R8M350DF2	23.50	0.077	9.5 x 32
10	556100M350DH2	15.90	0.120	9.5 x 38
18	556180M350MH2	8.84	0.175	11 x 38
22	556220M350EH2	7.23	0.210	12.5 x 38
27	556270M350ER2	6.00	0.250	12.5 x 44.5
39	556390M350FR2	4.18	0.340	16 x 44.5
56	556560M350LV2	3.00	0.400	18 x 40
400 Vdc (450 Vdc Surge)				
1.8	5561R8M400DC2	92.00	0.038	9.5 x 20.5
2.7	5562R7M400DD2	62.00	0.050	9.5 x 24
3.9	5563R9M400DF2	42.00	0.070	9.5 x 32
4.7	5564R7M400DH2	35.00	0.082	9.5 x 38
12	556120M400MH2	13.80	0.130	11 x 38
18	556180M400EH2	9.20	0.175	12.5 x 38
22	556220M400ER2	7.60	0.220	12.5 x 44.5
27	556270M400FR2	6.10	0.250	16 x 44.5
47	556470M400LV2	3.50	0.375	18 x 40
450 Vdc (500 Vdc Surge)				
1.5	5561R5M450DC2	115.00	0.035	9.5 x 20.5
2.2	5562R2M450DD2	78.00	0.045	9.5 x 24
3.3	5563R3M450DF2	52.00	0.062	9.5 x 32
3.9	5563R9M450DH2	44.00	0.074	9.5 x 38
10	556100M450MH2	17.00	0.125	11 x 38
12	556120M450EH2	9.50	0.200	12.5 x 38
18	556180M450ER2	7.80	0.225	12.5 x 44.5
22	556220M450FR2	5.20	0.300	16 x 44.5
33	556330M450LV2	5.20	0.315	18 x 40