

+105°C General Purpose Miniature Axial Lead, Aluminum Capacitors

Features-

- +105°C, Long Life, High Performance
- High CV Per Case Size

General Specifications-

Operating Temperature:

-40 to +105°C

Voltage Range:

3 – 450 VDC

Capacitance Range:

1µF to 10,000µF

Capacitance Tolerance:

±20% (Std.)

Case Size Range:

6.3 X 13.0mm – 18.0 X 40.0mm

Termination:

20 ga. Axial leads with lead forming available.

Life Validation Test: 4,000hrs @ +105°C

Δ CAP ≤ 20% From initial measurement.

Δ ESR ≤ 1.5X Initial specified limit.

Δ DCL ≤ Initial specified limit.

Shelf Test: 1,000hrs @ +105°C

Δ CAP ≤ 20% From initial measurement.

Δ ESR ≤ 1.5X Initial specified limit.

Δ DCL ≤ 2X Initial specified limit.



DC Leakage Current:

$$\text{For: } 3 - 16\text{VDC} \quad I = 0.1\sqrt{CV} + 2$$

$$\text{For: } 25 - 450\text{VDC} \quad I = 0.2\sqrt{CV} + 2$$

Where:

I is in µA

C is in µF

V is in Volts

Ripple Current Multipliers:

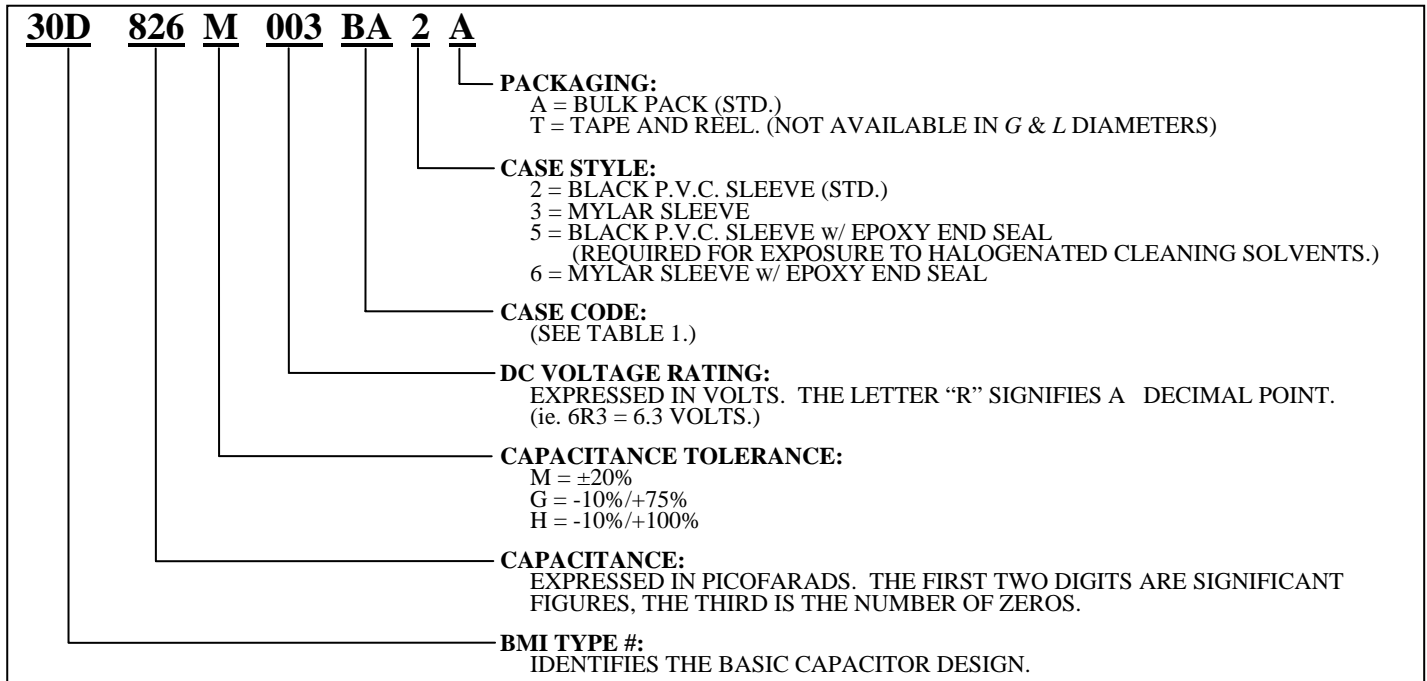
Temperature:

Ambient Temp.	+105°C	+85°C	±65°C
Multiplier	0.5	1.0	2.0

Frequency (Hz):

VDC	50-60	100-120	300-400	1k-100k
3-50	0.9	1.0	1.1	1.4
51-450	0.8	1.0	1.2	1.6

PART NUMBER BREAK-DOWN:



Axial-Leaded Capacitor Dimensions

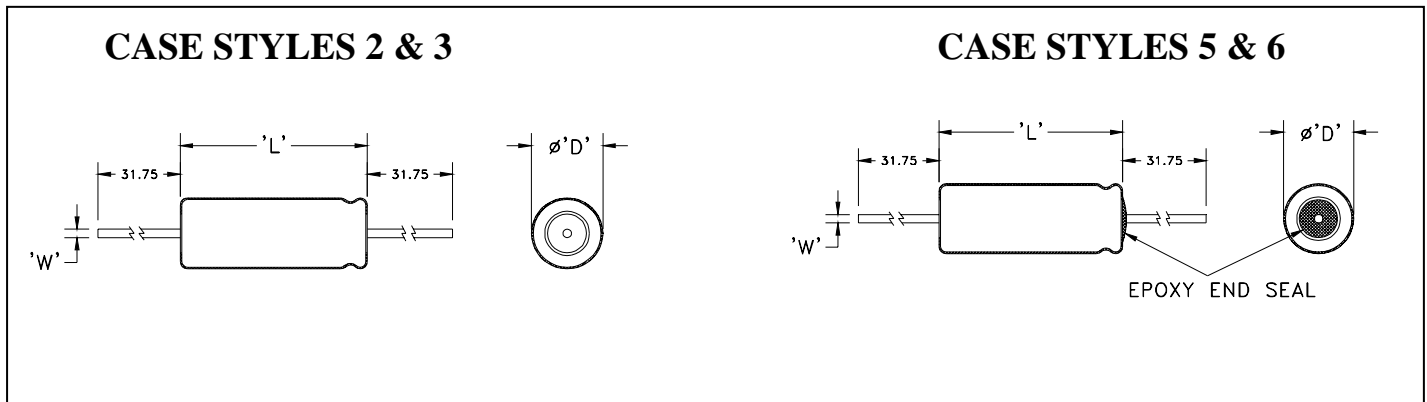


Table 1. Case Dimensions mm(in.)

CASE CODE	NOMINAL		STYLES 2& 3		STYLES 5 & 6 (w/EPOXY)		WIRE GAUGE 'W'
	'D'	'L'	'D' MAX.	'L' MAX.	'D' MAX.	'L' MAX.	
BA	6.3 (0.248)	13.0 (0.512)	7.0 (0.276)	14.4 (0.567)	7.0 (0.276)	15.9 (0.626)	No. 20 AWG (0.032)
BB	6.3 (0.248)	17.5 (0.689)	7.0 (0.276)	19.2 (0.756)	7.0 (0.276)	20.7 (0.815)	No. 20 AWG (0.032)
CB	8.0 (0.315)	17.5 (0.689)	8.6 (0.339)	19.2 (0.756)	8.6 (0.339)	20.7 (0.815)	No. 20 AWG (0.032)
CC	8.0 (0.315)	20.5 (0.807)	8.6 (0.339)	22.3 (0.878)	8.6 (0.339)	23.8 (0.937)	No. 20 AWG (0.032)
DB	9.5 (0.374)	17.5 (0.689)	10.2 (0.402)	19.2 (0.756)	10.2 (0.402)	20.7 (0.815)	No. 20 AWG (0.032)
DC	9.5 (0.374)	20.5 (0.807)	10.2 (0.402)	22.3 (0.878)	10.2 (0.402)	23.8 (0.937)	No. 20 AWG (0.032)
DD	9.5 (0.374)	24.0 (0.945)	10.2 (0.402)	25.5 (1.004)	10.2 (0.402)	27.0 (1.063)	No. 20 AWG (0.032)
DF	9.5 (0.374)	32.0 (1.260)	10.2 (0.402)	33.5 (1.319)	10.2 (0.402)	35.0 (1.378)	No. 20 AWG (0.032)
DH	9.5 (0.374)	38.0 (1.496)	10.2 (0.402)	39.8 (1.567)	10.2 (0.402)	41.3 (1.626)	No. 20 AWG (0.032)
EF	11.0 (0.433)	32.0 (1.260)	11.8 (0.465)	33.5 (1.319)	11.8 (0.465)	35.0 (1.378)	No. 20 AWG (0.032)
EH	11.0 (0.433)	38.0 (1.496)	11.8 (0.465)	39.8 (1.567)	11.8 (0.465)	41.3 (1.626)	No. 20 AWG (0.032)
FF	12.5 (0.492)	32.0 (1.260)	13.1 (0.516)	33.5 (1.319)	13.1 (0.516)	35.0 (1.378)	No. 20 AWG (0.032)
FH	12.5 (0.492)	38.0 (1.496)	13.1 (0.516)	39.8 (1.567)	13.1 (0.516)	41.3 (1.626)	No. 20 AWG (0.032)
FK	12.5 (0.492)	44.5 (1.752)	13.1 (0.516)	46.5 (1.831)	13.1 (0.516)	48.0 (1.890)	No. 20 AWG (0.032)
GH	16.0 (0.630)	38.0 (1.496)	16.6 (0.654)	39.8 (1.567)	16.6 (0.654)	41.3 (1.626)	No. 20 AWG (0.032)
GK	16.0 (0.630)	44.5 (1.752)	16.6 (0.654)	46.5 (1.831)	16.6 (0.654)	48.0 (1.890)	No. 20 AWG (0.032)
LR	18.0 (0.709)	36.0 (1.417)	18.7 (0.736)	37.8 (1.488)	18.7 (0.736)	39.0 (1.535)	No. 20 AWG (0.032)
LS	18.0 (0.709)	40.0 (1.575)	18.7 (0.736)	42.5 (1.673)	18.7 (0.736)	43.0 (1.693)	No. 20 AWG (0.032)

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A _{rms})
3 VOLTS DC WORKING; 4 VOLTS DC SURGE				
82	30D826M003BA2A	6.3 x 13.0	6.647	0.094
220	30D227M003BB2A	6.3 x 17.5	2.511	0.175
330	30D337M003CB2A	8.0 x 17.5	1.674	0.243
390	30D397M003CC2A	8.0 x 20.5	1.369	0.288
820	30D827M003DC2A	9.5 x 20.5	0.664	0.461
1,000	30D108M003DD2A	9.5 x 24.0	0.551	0.537
1,500	30D158M003DF2A	9.5 x 32.0	0.386	0.725
2,700	30D278M003DH2A	9.5 x 38.0	0.223	1.040
3,300	30D338M003EH2A	11.0 x 38.0	0.192	1.210
3,900	30D398M003FH2A	12.5 x 38.0	0.156	1.450
4,700	30D478M003FK2A	12.5 x 44.5	0.143	1.620
5,600	30D568M003GH2A	16.0 x 38.0	0.126	1.840
8,200	30D828M003GK2A	16.0 x 44.5	0.094	2.280
8,200	30D828M003LR2A	18.0 x 36.0	0.094	2.244
10,000	30D109M003LS2A	18.0 x 40.0	0.084	2.490
6.3 VOLTS DC WORKING; 8 VOLTS DC SURGE				
68	30D686M6R3BA2A	6.3 x 13.0	6.160	0.098
150	30D157M6R3BB2A	6.3 x 17.5	2.875	0.163
220	30D227M6R3CB2A	8.0 x 17.5	1.916	0.227
330	30D337M6R3CC2A	8.0 x 20.5	1.277	0.299
680	30D687M6R3DC2A	9.5 x 20.5	0.616	0.479
820	30D827M6R3DD2A	9.5 x 24.0	0.507	0.559
1,200	30D128M6R3DF2A	9.5 x 32.0	0.345	0.767
1,800	30D188M6R3DH2A	9.5 x 38.0	0.248	1.981
2,200	30D228M6R3EF2A	11.0 x 32.0	0.206	1.080
2,700	30D278M6R3EH2A	11.0 x 38.0	0.181	1.250
3,900	30D398M6R3FK2A	12.5 x 44.5	0.132	1.690
4,700	30D478M6R3GH2A	16.0 x 38.0	0.118	1.910
6,800	30D688M6R3GK2A	16.0 x 44.5	0.095	2.270
6,800	30D688M6R3LR2A	16.0 x 36.0	0.095	2.232
8,200	30D828M6R3LS2A	18.0 x 40.0	0.089	2.460
10 VOLTS DC WORKING; 12 VOLTS DC SURGE				
47	30D476M010BA2A	6.3 x 13.0	7.487	0.089
100	30D107M010BB2A	6.3 x 17.5	3.561	0.147
220	30D227M010CB2A	8.0 x 17.5	1.612	0.247
330	30D337M010CC2A	8.0 x 20.5	1.081	0.325
470	30D477M010DC2A	9.5 x 20.5	0.748	0.434
680	30D687M010DD2A	9.5 x 24.0	0.521	0.552
1,000	30D108M010DF2A	9.5 x 32.0	0.356	0.755
1,500	30D158M010DH2A	9.5 x 38.0	0.254	0.968
1,500	30D158M010EF2A	11.0 x 32.0	0.254	0.976
2,200	30D228M010EH2A	11.0 x 38.0	0.184	1.240
3,900	30D398M010FK2A	12.5 x 44.5	0.108	1.870
3,900	30D398M010GH2A	16.0 x 38.0	0.108	1.990
5,600	30D568M010GK2A	16.0 x 44.5	0.091	2.320
5,600	30D568M010LR2A	18.0 x 36.0	0.091	2.281
6,800	30D688M010LS2A	18.0 x 40.0	0.085	2.480
12 VOLTS DC WORKING; 15 VOLTS DC SURGE				
39	30D396M012BA2A	6.3 x 13.0	8.454	0.084
68	30D686M012BB2A	6.3 x 17.5	4.982	0.124
150	30D157M012CB2A	8.0 x 17.5	2.325	0.207

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A _{rms})
12 VOLTS DC WORKING; 15 VOLTS DC SURGE (CONTINUED)				
220	30D227M012CC2A	8.0 x 20.5	1.550	0.271
330	30D337M012DC2A	9.5 x 20.5	1.030	0.371
560	30D567M012DD2A	9.5 x 24.0	0.593	0.518
820	30D827M012DF2A	9.5 x 32.0	0.411	0.704
1,200	30D128M012DH2A	9.5 x 38.0	0.279	0.924
1,200	30D128M012EF2A	11.0 x 32.0	0.292	0.908
1,800	30D188M012EH2A	11.0 x 38.0	0.203	1.180
2,700	30D278M012FK2A	12.5 x 44.5	0.145	1.610
3,300	30D338M012GH2A	16.0 x 38.0	0.127	1.830
4,700	30D478M012GK2A	16.0 x 44.5	0.102	2.910
4,700	30D478M012LR2A	18.0 x 36.0	0.102	2.154
5,600	30D568M012LS2A	18.0 x 40.0	0.101	2.270
16 VOLTS DC WORKING; 20 VOLTS DC SURGE				
33	30D336M016BA2A	6.3 x 13.0	9.814	0.078
68	30D686M016BB2A	6.3 x 17.5	4.732	0.127
150	30D157M016CB2A	8.0 x 17.5	2.208	0.212
220	30D227M016CC2A	8.0 x 20.5	1.471	0.278
330	30D337M016DC2A	9.5 x 20.5	1.981	0.379
470	30D477M016DD2A	9.5 x 24.0	0.679	0.483
680	30D687M016DF2A	9.5 x 32.0	0.473	0.655
1,200	30D128M016DH2A	9.5 x 38.0	0.265	0.947
1,200	30D128M016EF2A	11.0 x 32.0	0.265	0.953
1,800	30D188M016EH2A	11.0 x 38.0	0.186	1.230
2,700	30D278M016FK2A	12.5 x 44.5	0.138	1.650
2,700	30D278M016GH2A	16.0 x 38.0	0.138	1.750
4,700	30D478M016GK2A	16.0 x 44.5	0.093	2.290
4,700	30D478M016LR2A	18.0 x 36.0	0.093	2.290
5,600	30D568M016LS2A	18.0 x 40.0	0.082	2.520
20 VOLTS DC WORKING; 25 VOLTS DC SURGE				
27	30D276M020BA2A	6.3 x 13.0	11.45	0.072
56	30D566M020BB2A	6.3 x 17.5	5.360	0.119
82	30D826M020CB2A	8.0 x 17.5	3.705	0.164
150	30D157M020CC2A	8.0 x 20.5	2.110	0.233
220	30D227M020DC2A	9.5 x 20.5	1.410	0.318
390	30D397M020DD2A	9.5 x 24.0	0.763	0.456
680	30D687M020DF2A	9.5 x 32.0	0.451	0.671
820	30D827M020DH2A	9.5 x 38.0	0.371	0.802
1,000	30D108M020EF2A	11.0 x 32.0	0.323	0.863
1,500	30D158M020EH2A	11.0 x 38.0	0.221	1.140
1,800	30D188M020FK2A	12.5 x 44.5	0.195	1.390
2,700	30D278M020GH2A	16.0 x 38.0	0.132	1.810
3,300	30D338M020GK2A	16.0 x 44.5	0.118	2.040
3,300	30D338M020LR2A	18.0 x 36.0	0.118	2.040
3,900	30D398M020LS2A	18.0 x 40.0	0.104	2.240
25 VOLTS DC WORKING; 35 VOLTS DC SURGE				
22	30D226M025BA2A	6.3 x 13.0	13.27	0.067
47	30D476M025BB2A	6.3 x 17.5	6.128	0.112
68	30D686M025CB2A	8.0 x 17.5	4.267	0.152
100	30D107M025CC2A	8.0 x 20.5	2.914	0.197
220	30D227M025DC2A	9.5 x 20.5	1.327	0.326
330	30D337M025DD2A	9.5 x 24.0	0.885	0.423

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A_{rms})
25 VOLTS DC WORKING; 35 VOLTS DC SURGE (CONTINUED)				
470	30D477M025DF2A	9.5 x 32.0	0.612	0.575
820	30D827M025DH2A	9.5 x 38.0	0.351	0.823
680	30D687M025EF2A	11.0 x 32.0	0.426	0.752
1,000	30D108M025EH2A	11.0 x 38.0	0.239	1.090
1,500	30D158M025FK2A	12.5 x 44.5	0.210	1.340
1,800	30D188M025GH2A	16.0 x 38.0	0.168	1.590
2,700	30D278M025GK2A	16.0 x 44.5	0.127	1.960
2,700	30D278M025LR2A	18.0 x 36.0	0.127	1.960
3,300	30D338M025LS2A	18.0 x 40.0	0.108	2.190
35 VOLTS DC WORKING; 45 VOLTS DC SURGE				
18	30D186M035BA2A	6.3 x 13.0	15.00	0.063
33	30D336M035BB2A	6.3 x 17.5	8.330	0.096
56	30D566M035CB2A	8.0 x 17.5	4.780	0.144
82	30D826M035CC2A	8.0 x 20.5	3.308	0.185
100	30D107M035DC2A	9.5 x 20.5	2.740	0.212
220	30D227M035DD2A	9.5 x 24.0	1.250	0.356
330	30D337M035DF2A	9.5 x 32.0	0.830	0.495
560	30D567M035DH2A	9.5 x 38.0	0.478	0.706
560	30D567M035EF2A	11.0 x 32.0	0.478	0.711
1,000	30D108M035EH2A	11.0 x 38.0	0.274	1.020
1,200	30D128M035FK2A	12.5 x 44.5	0.225	1.290
1,200	30D128M035GH2A	16.0 x 38.0	0.225	1.380
2,200	30D228M035GK2A	16.0 x 44.5	0.125	1.980
2,200	30D228M035LR2A	18.0 x 36.0	0.125	1.946
2,700	30D278M035LS2A	18.0 x 40.0	0.114	2.140
40 VOLTS DC WORKING; 50 VOLTS DC SURGE				
15	30D156M040BA2A	6.3 x 13.0	17.60	0.058
22	30D226M040BB2A	6.3 x 17.5	11.70	0.081
47	30D476M040CB2A	8.0 x 17.5	5.435	0.134
68	30D686M040CC2A	8.0 x 20.5	3.785	0.173
100	30D107M040DC2A	9.5 x 20.5	2.585	0.234
180	30D187M040DD2A	9.5 x 24.0	1.413	0.335
270	30D277M040DF2A	9.5 x 32.0	0.963	0.459
470	30D477M040DH2A	9.5 x 38.0	0.543	0.663
470	30D477M040EF2A	11.0 x 32.0	0.543	0.667
680	30D687M040EH2A	11.0 x 38.0	0.378	0.865
1,000	30D108M040FK2A	12.5 x 44.5	0.258	1.210
1,200	30D128M040GH2A	16.0 x 38.0	0.212	1.420
1,800	30D188M040GK2A	16.0 x 44.5	0.150	1.810
1,800	30D188M040LR2A	18.0 x 36.0	0.150	1.776
2,200	30D228M040LS2A	18.0 x 40.0	0.125	2.040
50 VOLTS DC WORKING; 65 VOLTS DC SURGE				
10	30D106M050BA2A	6.3 x 13.0	25.85	0.048
22	30D226M050BB2A	6.3 x 17.5	11.70	0.081
33	30D336M050CB2A	8.0 x 17.5	7.850	0.112
68	30D686M050CC2A	8.0 x 20.5	3.785	0.173
100	30D107M050DC2A	9.5 x 20.5	2.585	0.233
150	30D157M050DD2A	9.5 x 24.0	1.760	0.301
220	30D227M050DF2A	9.5 x 32.0	1.177	0.417
330	30D337M050DH2A	9.5 x 38.0	0.785	0.551
330	30D337M050EF2A	11.0 x 32.0	0.785	0.554

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A_{rms})
50 VOLTS DC WORKING; 65 VOLTS DC SURGE (CONTINUED)				
560	30D567M050EH2A	11.0 x 38.0	0.451	0.792
820	30D827M050FK2A	12.5 x 44.5	0.311	1.110
820	30D827M050GH2A	16.0 x 38.0	0.311	1.170
1,500	30D158M050GK2A	16.0 x 44.5	0.176	1.670
1,500	30D158M050LR2A	18.0 x 36.0	0.176	1.640
1,800	30D188M050LS2A	18.0 x 40.0	0.141	1.920
63 VOLTS DC WORKING; 75 VOLTS DC SURGE				
6.8	30D685M063BA2A	6.3 x 13.0	35.53	0.041
15	30D156M063BB2A	6.3 x 17.5	16.58	0.068
33	30D336M063CB2A	8.0 x 17.5	7.370	0.116
47	30D476M063CC2A	8.0 x 20.5	5.100	0.149
68	30D686M063DC2A	9.5 x 20.5	3.550	0.187
100	30D107M063DD2A	9.5 x 24.0	2.426	0.256
150	30D157M063DF2A	9.5 x 32.0	1.658	0.349
270	30D277M063DH2A	9.5 x 38.0	0.904	0.513
220	30D227M063EF2A	11.0 x 32.0	1.105	0.467
470	30D477M063EH2A	11.0 x 38.0	0.510	0.745
560	30D567M063FK2A	12.5 x 44.5	0.423	0.944
560	30D567M063GH2A	16.0 x 38.0	0.423	1.010
1,000	30D108M063GK2A	16.0 x 44.5	0.242	1.420
1,000	30D108M063LR2A	18.0 x 36.0	0.240	1.404
1,200	30D128M063LS2A	18.0 x 40.0	0.199	1.620
75 VOLTS DC WORKING; 85 VOLTS DC SURGE				
5.6	30D565M075BA2A	6.3 x 13.0	28.08	0.046
12	30D126M075BB2A	6.3 x 17.5	13.20	0.076
18	30D186M075CB2A	8.0 x 17.5	8.800	0.106
27	30D276M075CC2A	8.0 x 20.5	6.000	0.138
47	30D476M075DC2A	9.5 x 20.5	3.384	0.204
82	30D826M075DD2A	9.5 x 24.0	1.941	0.286
120	30D127M075DF2A	9.5 x 32.0	1.320	0.392
180	30D187M075DH2A	9.5 x 38.0	0.880	0.521
150	30D157M075EF2A	11.0 x 32.0	1.100	0.468
270	30D277M075EH2A	11.0 x 38.0	0.600	0.687
390	30D397M075FK2A	12.5 x 44.5	0.400	0.971
680	30D687M075GK2A	16.0 x 44.5	0.235	1.440
680	30D687M075LR2A	18.0 x 36.0	0.235	1.419
1,000	30D108M075LS2A	18.0 x 40.0	0.160	1.810
80 VOLTS DC WORKING; 100 VOLTS DC SURGE				
4.7	30D475M080BA2A	6.3 x 13.0	33.84	0.042
10	30D106M080BB2A	6.3 x 17.5	16.09	0.069
15	30D156M080CB2A	8.0 x 17.5	11.00	0.095
22	30D226M080CC2A	8.0 x 20.5	7.330	0.125
33	30D336M080DC2A	9.5 x 20.5	4.880	0.171
68	30D686M080DD2A	9.5 x 24.0	2.357	0.261
100	30D107M080DF2A	9.5 x 32.0	1.609	0.356
150	30D157M080DH2A	9.5 x 38.0	1.100	0.466
120	30D127M080EF2A	11.0 x 32.0	1.320	0.427
220	30D227M080EH2A	11.0 x 38.0	0.733	0.621
330	30D337M080GH2A	16.0 x 38.0	0.488	0.935
470	30D477M080GK2A	16.0 x 44.5	0.338	1.210
470	30D477M080LR2A	18.0 x 36.0	0.338	1.183
680	30D687M080LS2A	18.0 x 40.0	0.235	1.490

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A_{rms})
100 VOLTS DC WORKING; 125 VOLTS DC SURGE				
3.3	30D335M100BA2A	6.3 x 13.0	48.88	0.035
4.7	30D475M100BB2A	6.3 x 17.5	33.84	0.048
10	30D106M100CB2A	8.0 x 17.5	16.09	0.079
15	30D156M100CC2A	8.0 x 20.5	11.00	0.102
22	30D226M100DC2A	9.5 x 20.5	7.333	0.138
39	30D396M100DD2A	9.5 x 24.0	4.000	0.199
56	30D566M100DF2A	9.5 x 32.0	2.808	0.269
100	30D107M100DH2A	9.5 x 38.0	1.609	0.386
100	30D107M100EF2A	11.0 x 32.0	1.609	0.388
150	30D157M100EH2A	11.0 x 38.0	1.100	0.507
220	30D227M100FK2A	12.5 x 44.5	0.733	0.717
220	30D227M100GH2A	16.0 x 38.0	0.733	0.763
390	30D397M100GK2A	16.0 x 44.5	0.400	1.110
390	30D397M100LR2A	18.0 x 36.0	0.400	1.088
470	30D477M100LS2A	18.0 x 40.0	0.338	1.240
160 VOLTS DC WORKING; 180 VOLTS DC SURGE				
1.5	30D155M160BA2A	6.3 x 13.0	110.1	0.023
2.7	30D275M160BB2A	6.3 x 17.5	60.01	0.036
3.3	30D335M160CB2A	8.0 x 17.5	48.88	0.045
6.8	30D685M160CC2A	8.0 x 20.5	23.57	0.071
10	30D106M160DC2A	9.5 x 20.5	16.09	0.093
15	30D156M160DD2A	9.5 x 24.0	11.01	0.121
22	30D226M160DF2A	9.5 x 32.0	7.333	0.166
27	30D276M160DH2A	9.5 x 38.0	6.010	0.199
33	30D336M160EF2A	11.0 x 32.0	4.888	0.222
47	30D476M160EH2A	11.0 x 38.0	3.384	0.289
56	30D566M160FK2A	12.5 x 44.5	2.808	0.366
82	30D826M160GH2A	16.0 x 38.0	1.941	0.469
100	30D107M160GK2A	16.0 x 44.5	1.609	0.552
100	30D107M160LR2A	18.0 x 36.0	1.609	0.542
120	30D127M160LS2A	18.0 x 40.0	1.321	0.628
200 VOLTS DC WORKING; 250 VOLTS DC SURGE				
1.2	30D125M200BA2A	6.3 x 13.0	132.0	0.022
2.2	30D225M200BB2A	6.3 x 17.5	73.31	0.033
2.7	30D275M200CB2A	8.0 x 17.5	60.01	0.041
4.7	30D475M200CC2A	8.0 x 20.5	33.85	0.058
8.2	30D825M200DC2A	9.5 x 20.5	19.41	0.085
10	30D106M200DD2A	9.5 x 24.0	16.09	0.101
15	30D156M200DF2A	9.5 x 32.0	11.02	0.135
22	30D226M200DH2A	9.5 x 38.0	7.331	0.181
27	30D276M200EF2A	11.0 x 32.0	6.010	0.201
33	30D336M200EH2A	11.0 x 38.0	4.880	0.241
39	30D396M200FH2A	12.5 x 38.0	4.010	0.287
47	30D476M200FK2A	12.5 x 44.5	3.384	0.334
68	30D686M200GH2A	16.0 x 38.0	2.357	0.426
82	30D826M200GK2A	16.0 x 44.5	1.940	0.501
82	30D826M200LR2A	18.0 x 36.0	1.940	0.494
100	30D107M200LS2A	18.0 x 40.0	1.609	0.571
250 VOLTS DC WORKING; 300 VOLTS DC SURGE				
1.0	30D105M250BA2A	6.3 x 13.0	161.0	0.021
1.8	30D185M250BB2A	6.3 x 17.5	88.01	0.031

STANDARD RATINGS FOR TYPE 30D

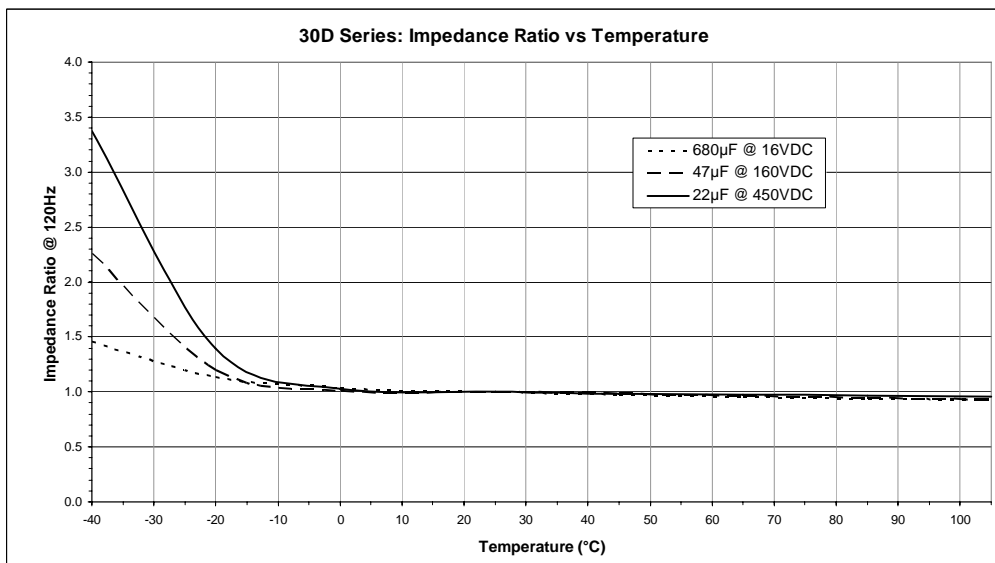
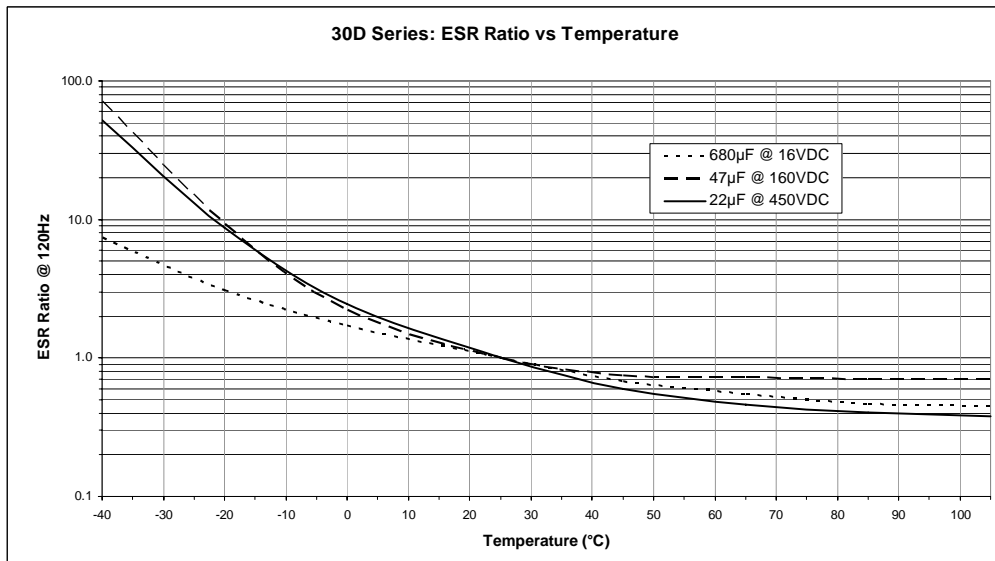
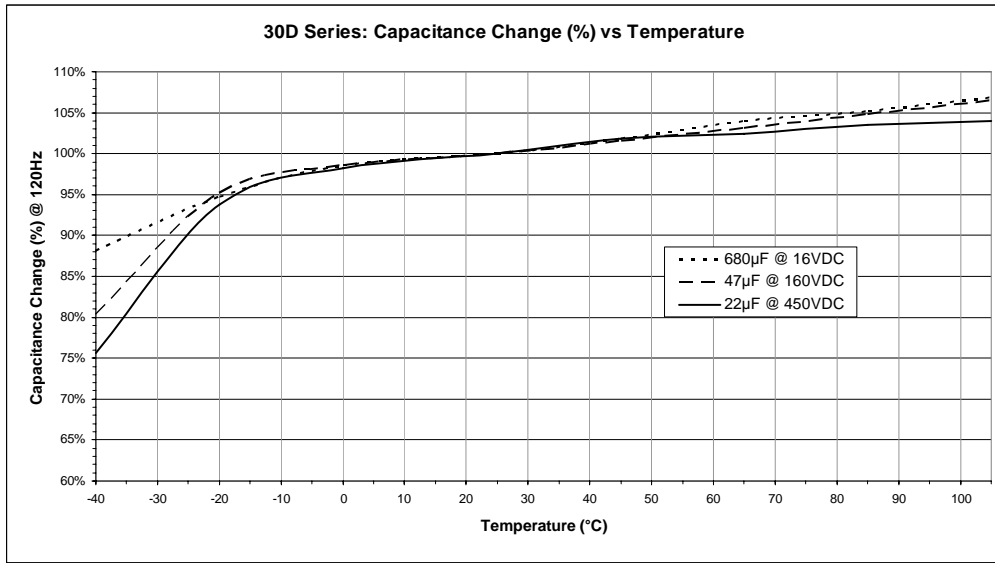
Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A_{rms})
250 VOLTS DC WORKING; 300 VOLTS DC SURGE (CONTINUED)				
2.2	30D225M250CB2A	8.0 x 17.5	73.31	0.037
3.3	30D335M250CC2A	8.0 x 20.5	48.01	0.049
6.8	30D685M250DC2A	9.5 x 20.5	23.57	0.078
8.2	30D825M250DD2A	9.5 x 24.0	19.41	0.191
12	30D126M250DF2A	9.5 x 32.0	13.21	0.124
18	30D186M250DH2A	9.5 x 38.0	8.810	0.165
18	30D186M250EF2A	11.0 x 32.0	8.810	0.166
27	30D276M250EH2A	11.0 x 38.0	6.000	0.217
39	30D396M250FK2A	12.5 x 44.5	4.000	0.307
47	30D476M250GH2A	16.0 x 38.0	3.384	0.355
56	30D566M250GK2A	16.0 x 44.5	2.808	0.417
56	30D566M250LR2A	18.0 x 36.0	2.808	0.411
82	30D826M250LS2A	18.0 x 40.0	1.940	0.518
300 VOLTS DC WORKING; 350 VOLTS DC SURGE				
0.68	30D684M300BA2A	6.3 x 13.0	235.0	0.016
1.2	30D125M300BB2A	6.3 x 17.5	133.0	0.024
1.5	30D155M300CB2A	8.0 x 17.5	107.0	0.030
2.2	30D225M300CC2A	8.0 x 20.5	73.00	0.040
3.9	30D395M300DC2A	9.5 x 20.5	41.00	0.055
5.6	30D565M300DD2A	9.5 x 24.0	28.60	0.070
8.2	30D825M300DF2A	9.5 x 32.0	19.50	0.100
10	30D106M300DH2A	9.5 x 38.0	16.00	0.120
15	30D156M300EF2A	11.0 x 32.0	11.40	0.144
18	30D186M300EH2A	11.0 x 38.0	8.900	0.175
27	30D276M300FK2A	12.5 x 44.5	5.900	0.250
39	30D396M300GH2A	16.0 x 38.0	4.700	0.286
47	30D476M300GK2A	16.0 x 44.5	3.400	0.375
47	30D476M300LR2A	18.0 x 36.0	3.400	0.360
68	30D686M300LS2A	18.0 x 40.0	2.400	0.450
350 VOLTS DC WORKING; 400 VOLTS DC SURGE				
0.56	30D564M350BA2A	6.3 x 13.0	284.0	0.014
1.0	30D105M350BB2A	6.3 x 17.5	159.0	0.022
1.2	30D125M350CB2A	8.0 x 17.5	132.0	0.027
1.8	30D185M350CC2A	8.0 x 20.5	88.40	0.036
3.3	30D335M350DC2A	9.5 x 20.5	48.00	0.054
4.7	30D475M350DD2A	9.5 x 24.0	33.80	0.065
6.8	30D685M350DF2A	9.5 x 32.0	23.50	0.077
10	30D106M350DH2A	9.5 x 38.0	15.90	0.120
12	30D126M350EF2A	11.0 x 32.0	13.10	0.141
18	30D186M350EH2A	11.0 x 38.0	8.840	0.175
27	30D276M350FK2A	12.5 x 44.5	6.000	0.250
33	30D336M350GH2A	16.0 x 38.0	5.560	0.299
39	30D396M350GK2A	16.0 x 44.5	4.180	0.340
39	30D396M350LR2A	18.0 x 36.0	4.180	0.372
56	30D566M350LS2A	18.0 x 40.0	3.000	0.400
400 VOLTS DC WORKING; 450 VOLTS DC SURGE				
1.8	30D185M400DC2A	9.5 x 20.5	92.00	0.038
2.7	30D275M400DD2A	9.5 x 24.0	62.00	0.050
3.9	30D395M400DF2A	9.5 x 32.0	42.00	0.070
4.7	30D475M400DH2A	9.5 x 38.0	35.00	0.082
8.2	30D825M400EF2A	11.0 x 32.0	24.60	0.098
12	30D126M400EH2A	11.0 x 38.0	13.80	0.130

STANDARD RATINGS FOR TYPE 30D

Rated Capacitance (μF)	Catalog Number	Nominal Case Size D x L (mm)	Maximum ESR +25°C 120Hz (Ω)	Maximum Ripple Current +85°C 120Hz (A_{rms})
400 VOLTS DC WORKING; 450 VOLTS DC SURGE (CONTINUED)				
22	30D226M400GH2A	16.0 x 38.0	7.200	0.216
27	30D276M400GK2A	16.0 x 44.5	6.100	0.250
27	30D276M400LR2A	18.0 x 36.0	6.100	0.318
47	30D476M400LS2A	18.0 x 40.0	3.500	0.375
450 VOLTS DC WORKING; 500 VOLTS DC SURGE				
1.5	30D155M450DC2A	9.5 x 20.5	115.0	0.035
2.2	30D225M450DD2A	9.5 x 24.0	78.00	0.045
3.3	30D335M450DF2A	9.5 x 32.0	52.00	0.062
3.9	30D395M450DH2A	9.5 x 38.0	44.00	0.074
6.8	30D685M450EF2A	11.0 x 32.0	28.70	0.092
10	30D106M450EH2A	11.0 x 38.0	17.00	0.125
18	30D186M450FK2A	12.5 x 44.5	7.800	0.225
18	30D186M450GH2A	16.0 x 38.0	7.620	0.277
22	30D226M450GK2A	16.0 x 44.5	6.380	0.300
22	30D226M450LR2A	18.0 x 36.0	6.380	0.288
33	30D336M450LS2A	18.0 x 40.0	5.200	0.315

30D TYPICAL PERFORMANCE PROFILES

TEMPERATURE CHARACTERISTICS



30D TYPICAL PERFORMANCE PROFILES

FREQUENCY CHARACTERISTICS

