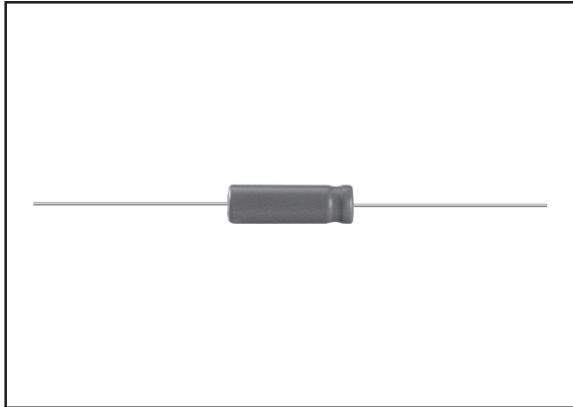


## Aluminum Capacitors + 85°C, POWERLYTIC® Electrolytics



### FEATURES

- Designed for applications requiring greatest possible capacitance in small physical case sizes
- Supplement original Type 36D can-type capacitors, offering lower capacitance values in smaller sizes with axial leads
- Welds at all critical anode and cathode terminals eliminate riveted or pressure connections to assure freedom from open circuits even when operated in the microvolt or millivolt signal range
- Improved molded phenolic and seals
- Pressure-sensitive safety vent
- Service life of 10 years or more in normal circuit applications
- Capacitors listed have outer plastic-film insulation. For bare case, change last character of part number from 4 to 0 and subtract .062" [1.575mm] from diameter and .125" [3.175mm] from length.

### PERFORMANCE CHARACTERISTICS

**Operating Temperature:** - 20°C to + 85°C.

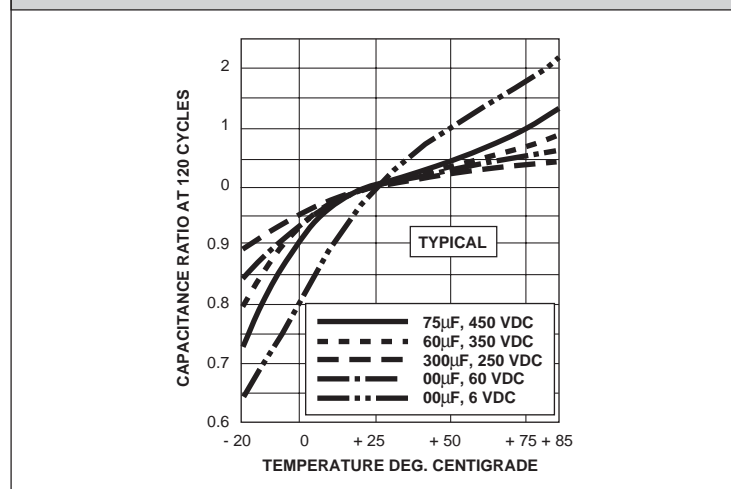
**Capacitance Tolerance:** 3 WVDC to 75 WVDC capacitors, + 75%, - 10%; 100 WVDC to 450 WVDC capacitors, + 50%, - 10%.

**Dissipation Factor:** At + 25°C:  
 3 WVDC and 6 WVDC capacitors, 230%;  
 10 WVDC and 15 WVDC capacitors, 150%;  
 25 WVDC and 30 WVDC capacitors, 60%;  
 40 WVDC and 50 WVDC capacitors, 45%;  
 75 WVDC and 100 WVDC capacitors, 30%;  
 150 WVDC to 450 WVDC capacitors, 18%.

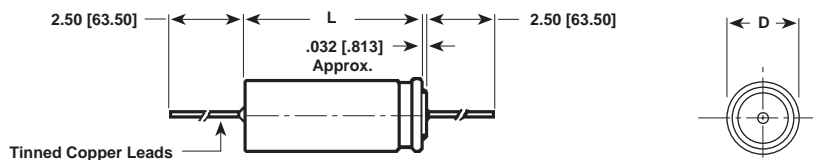
**Ripple Current:** 20 to 3140 maximum amperes rms @ 120Hz and + 85°C, depending upon capacitance.

**Life Test:** Satisfactory operation for 500 hours at rated DC voltage, applied in an oven circulating air, at a temperature of + 85°C.

### CAPACITANCE vs TEMPERATURE



### DIMENSIONAL CONFIGURATIONS [Numbers in brackets indicate millimeters]



CASE CODE	± D [0.51]	± L [1.58]	CASE CODE	± D [0.51]	± L [1.58]	CASE CODE	± D [0.51]	± L [1.58]
EE	0.510 [13.0]	1.141 [29.0]	GJ	0.760 [19.3]	1.641 [41.7]	JE	1.010 [25.7]	1.141 [29.0]
EJ	0.510 [13.0]	1.641 [41.7]	GL	0.760 [19.3]	2.141 [54.4]	JJ	1.010 [25.7]	1.641 [41.7]
EL	0.510 [13.0]	2.141 [54.4]	GP	0.760 [19.3]	2.641 [67.1]	JL	1.010 [25.7]	2.141 [54.4]
FE	0.635 [16.1]	1.141 [29.0]	HE	0.885 [22.5]	1.141 [29.0]	JP	1.010 [25.7]	2.641 [67.1]
FJ	0.635 [16.1]	1.641 [41.7]	HJ	0.885 [22.5]	1.641 [41.7]	JS	1.010 [25.7]	3.141 [79.8]
FL	0.635 [16.1]	2.141 [54.4]	HL	0.885 [22.5]	2.141 [54.4]	JT	1.010 [25.7]	3.641 [92.5]
FP	0.635 [16.1]	2.641 [67.1]	HP	0.885 [22.5]	2.641 [67.1]			
GE	0.760 [19.3]	1.141 [29.0]	HS	0.885 [22.5]	3.141 [79.8]			



<b>STANDARD RATINGS</b>					
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER
<b>3 WVDC @ + 85°C, SURGE = 4 V</b>			<b>15 WVDC @ + 85°C, SURGE = 18 V</b>		
400.0	EE	39D407G003EE4	200.0	EE	39D207G015EE4
900.0	EJ	39D907G003EJ4	400.0	EJ	39D407G015EJ4
1300.0	EL	39D138G003EL4	600.0	EL	39D607G015EL4
1400.0	GE	39D148G003GE4	800.0	FJ	39D807G015FJ4
1800.0	FJ	39D188G003FJ4	950.0	HE	39D957G015HE4
2100.0	HE	39D218G003HE4	1200.0*	FL	39D128G015FL4
2700.0	FL	39D278G003FL4	1300.0	GJ	39D138G015GJ4
2900.0	GJ	39D298G003GJ4	1600.0	FP	39D168G015FP4
3000.0	JE	39D308G003JE4	1900.0	GL	39D198G015GL4
3600.0	FP	39D368G003FP4	2500.0	GP	39D258G015GP4
4200.0	HJ	39D428G003HJ4	2600.0	JJ	39D268G015JJ4
4300.0	GL	39D438G003GL4	3800.0	HP	39D388G015HP4
5700.0	GP	39D578G003GP4	4000.0	JL	39D408G015JL4
6000.0	JJ	39D608G003JJ4	4700.0	HS	39D478G015HS4
8500.0	HP	39D858G003HP4	5300.0	JP	39D538G015JP4
9000.0	JL	39D908G003JL4	6600.0	JS	39D668G015JS4
10000.0	HS	39D109G003HS4	8000.0*	JT	39D808G015JT4
12000.0	JP	39D129G003JP4			
15000.0	JS	39D159G003JS4			
18000.0	JT	39D189G003JT4			
<b>6 WVDC @ + 85°C, SURGE = 8 V</b>			<b>25 WVDC @ + 85°C, SURGE = 30 V</b>		
300.0	EE	39D307G006EE4	100.0	EE	39D107G025EE4
600.0	EJ	39D607G006EJ4	200.0	EJ	39D207G025EJ4
900.0	EL	39D907G006EL4	350.0	EL	39D357G025EL4
1000.0	GE	39D108G006GE4	450.0	FJ	39D457G025FJ4
1200.0	FJ	39D128G006FJ4	500.0*	HE	39D507G025HE4
1500.0	HE	39D158G006HE4	700.0	FL	39D707G025FL4
1900.0	FL	39D198G006FL4	750.0	GJ	39D757G025GJ4
2000.0	GJ	39D208G006GJ4	800.0	JE	39D807G025JE4
2100.0	JE	39D218G006JE4	950.0	FP	39D957G025FP4
2500.0	FP	39D258G006FP4	1000.0*	GL	39D108G025GL4
3000.0	GL	39D308G006GL4	1100.0	HJ	39D118G025HJ4
4000.0	GP	39D408G006GP4	1500.0	GP	39D158G025GP4
4200.0	JJ	39D428G006JJ4	1600.0	JJ	39D168G025JJ4
6000.0	HP	39D608G006HP4	1700.0	HL	39D178G025HL4
6300.0	JL	39D638G006JL4	2200.0*	HP	39D228G025HP4
7500.0	HS	39D758G006HS4	2400.0	JL	39D248G025JL4
8500.0	JP	39D858G006JP4	2800.0	HS	39D288G025HS4
10000.0	JS	39D109G006JS4	3200.0	JP	39D328G025JP4
12000.0	JT	39D129G006JT4	4000.0*	JS	39D408G025JS4
			4700.0*	JT	39D478G025JT4
<b>10 WVDC @ + 85°C, SURGE = 12 V</b>			<b>30 WVDC @ + 85°C, SURGE = 40 V</b>		
250.0	EE	39D257G010EE4	75.0	EE	39D756G030EE4
500.0	EJ	39D507G010EJ4	150.0	EJ	39D157G030EJ4
800.0	EL	39D807G010EL4	250.0	EL	39D257G030EL4
850.0	GE	39D857G010GE4	350.0	FJ	39D357G030FJ4
1000.0*	FJ	39D108G010FJ4	400.0	HE	39D407G030HE4
1200.0	HE	39D128G010HE4	500.0*	FL	39D507G030FL4
1600.0	FL	39D168G010FL4	600.0*	JE	39D607G030JE4
1700.0	GJ	39D178G010GJ4	700.0	FP	39D707G030FP4
2100.0	FP	39D218G010FP4	850.0	GL	39D857G030GL4
2500.0	GL	39D258G010GL4	1100.0*	GP	39D118G030GP4
3400.0	GP	39D348G010GP4	1200.0	HL	39D128G030HL4
3500.0	JJ	39D358G010JJ4	1700.0	HP	39D178G030HP4
5000.0	HP	39D508G010HP4	1800.0	JL	39D188G030JL4
5200.0	JL	39D528G010JL4	2100.0	HS	39D218G030HS4
6300.0	HS	39D638G010HS4	2400.0	JP	39D248G030JP4
7100.0	JP	39D718G010JP4	3000.0*	JS	39D308G030JS4
8800.0	JS	39D888G010JS4	3600.0	JT	39D368G030JT4
10000.0	JT	39D109G010JT4			

\* These values are normally stocked. Case codes subject to change without notice.



STANDARD RATINGS					
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER
<b>40 WVDC @ + 85°C, SURGE = 50 V</b>			<b>75 WVDC @ + 85°C, SURGE = 95 V</b>		
75.0	EE	39D756G040EE4	500.0	HL	39D507G075HL4
150.0	EJ	39D157G040EJ4	700.0	HP	39D707G075HP4
200.0	EL	39D207G040EL4	750.0	JL	39D757G075JL4
250.0	GE	39D257G040GE4	850.0	HS	39D857G075HS4
300.0	FJ	39D307G040FJ4	1000.0*	JP	39D108G075JP4
350.0	HE	39D357G040HE4	1200.0	JS	39D128G075JS4
450.0	FL	39D457G040FL4	1500.0	JT	39D158G075JT4
500.0*	GJ	39D507G040GJ4	<b>100 WVDC @ + 85°C, SURGE = 125 V</b>		
600.0	FP	39D607G040FP4	15.0	EE	39D156F100EE4
750.0	GL	39D757G040GL4	35.0	EJ	39D356F100EJ4
1000.0*	GP	39D108G040GP4	55.0	EL	39D556F100EL4
1100.0	HL	39D118G040HL4	60.0	GE	39D606F100GE4
1500.0	HP	39D158G040HP4	75.0	FJ	39D756F100FJ4
1600.0	JL	39D168G040JL4	90.0	HE	39D906F100HE4
1900.0	HS	39D198G040HS4	110.0	FL	39D117F100FL4
2100.0	JP	39D218G040JP4	120.0	GJ	39D127F100GJ4
2600.0	JS	39D268G040JS4	130.0	JE	39D137F100JE4
3200.0	JT	39D328G040JT4	150.0	FP	39D157F100FP4
<b>50 WVDC @ + 85°C, SURGE = 65 V</b>			180.0	HJ	39D187F100HJ4
50.0	EE	39D506G050EE4	190.0	GL	39D197F100GL4
100.0	EJ	39D107G050EJ4	250.0	GP	39D257F100GP4
150.0	EL	39D157G050EL4	260.0	JJ	39D267F100JJ4
200.0*	FJ	39D207G050FJ4	280.0	HL	39D287F100HL4
250.0*	HE	39D257G050HE4	370.0	HP	39D377F100HP4
350.0	FL	39D357G050FL4	390.0	JL	39D397F100JL4
450.0	FP	39D457G050FP4	460.0	HS	39D467F100HS4
500.0*	GL	39D507G050GL4	520.0	JP	39D527F100JP4
700.0	GP	39D707G050GP4	650.0	JS	39D657F100JS4
750.0	JJ	39D757G050JJ4	780.0	JT	39D787F100JT4
800.0*	HL	39D807G050HL4	<b>150 WVDC @ + 85°C, SURGE = 175 V</b>		
1100.0*	HP	39D118G050HP4	10.0	EE	39D106F150EE4
1300.0	HS	39D138G050HS4	25.0	EJ	39D256F150EJ4
1500.0	JP	39D158G050JP4	40.0	EL	39D406F150EL4
1900.0	JS	39D198G050JS4	50.0	FJ	39D506F150FJ4
2300.0*	JT	39D238G050JT4	60.0	HE	39D606F150HE4
<b>75 WVDC @ + 85°C, SURGE = 95 V</b>			80.0	FL	39D806F150FL4
30.0	EE	39D306G075EE4	85.0	GJ	39D856F150GJ4
75.0	EJ	39D756G075EJ4	88.0	JE	39D886F150JE4
100.0	EL	39D107G075EL4	100.0	FP	39D107F150FP4
150.0*	FJ	39D157G075FJ4	120.0	GL	39D127F150GL4
200.0	FL	39D207G075FL4	170.0	GP	39D177F150GP4
250.0*	JE	39D257G075JE4	190.0	HL	39D197F150HL4
300.0	FP	39D307G075FP4	250.0	HP	39D257F150HP4
350.0	GL	39D357G075GL4	260.0	JL	39D267F150JL4
450.0	GP	39D457G075GP4	310.0	HS	39D317F150HS4
			350.0	JP	39D357F150JP4
			440.0	JS	39D447F150JS4
			530.0	JT	39D537F150JT4

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<b>STANDARD RATINGS</b>					
CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER	CAPACITANCE ( $\mu$ F)	CASE CODE	PART NUMBER
<b>200 WVDC @ + 85°C, SURGE = 250 V</b>			<b>300 WVDC @ + 85°C, SURGE = 350 V</b>		
9.0	EE	39D905F200EE4	100.0	HP	39D107F300HP4
15.0	EJ	39D156F200EJ4	120.0	HS	39D127F300HS4
25.0	EL	39D256F200EL4	130.0	JP	39D137F300JP4
30.0	GE	39D306F200GE4	170.0	JS	39D177F300JS4
35.0	FJ	39D356F200FJ4	200.0	JT	39D207F300JT4
40.0	HE	39D406F200HE4	<b>350 WVDC @ + 85°C, SURGE = 400 V</b>		
55.0	FL	39D556F200FL4	4.0	EE	39D405F350EE4
60.0	GJ	39D606F200GJ4	8.0	EJ	39D805F350EJ4
75.0	FP	39D756F200FP4	12.0	EL	39D126F350EL4
80.0	HJ	39D806F200HJ4	15.0	FJ	39D156F350FJ4
90.0	GL	39D906F200GL4	20.0	FL	39D206F350FL4
120.0	GP	39D127F200GP4	25.0	GJ	39D256F350GJ4
130.0	HL	39D137F200HL4	30.0	FP	39D306F350FP4
170.0	HP	39D177F200HP4	40.0	GL	39D406F350GL4
180.0	JL	39D187F200JL4	50.0	GP	39D506F350GP4
220.0	HS	39D227F200HS4	60.0	HL	39D606F350HL4
250.0	JP	39D257F200JP4	80.0	HP	39D806F350HP4
310.0	JS	39D317F200JS4	100.0	HS	39D107F350HS4
370.0	JT	39D377F200JT4	110.0	JP	39D117F350JP4
<b>250 WVDC @ + 85°C, SURGE = 300 V</b>			130.0	JS	39D137F350JS4
7.0	EE	39D705F250EE4	160.0	JT	39D167F350JT4
15.0	EJ	39D156F250EJ4	<b>400 WVDC @ + 85°C, SURGE = 475 V</b>		
20.0	EL	39D206F250EL4	2.0	EE	39D205F400EE4
30.0	FJ	39D306F250FJ4	5.0	EJ	39D505F400EJ4
35.0	HE	39D356F250HE4	10.0	FJ	39D106F400FJ4
45.0	FL	39D456F250FL4	15.0	FL	39D156F400FL4
50.0*	JE	39D506F250JE4	20.0	FP	39D206F400FP4
60.0	FP	39D606F250FP4	25.0	GL	39D256F400GL4
70.0	GL	39D706F250GL4	35.0	GP	39D356F400GP4
95.0	GP	39D956F250GP4	40.0	HL	39D406F400HL4
100.0*	HL	39D107F250HL4	55.0	HP	39D556F400HP4
140.0	HP	39D147F250HP4	65.0	HS	39D656F400HS4
150.0*	JL	39D157F250JL4	75.0	JP	39D756F400JP4
180.0	HS	39D187F250HS4	90.0	JS	39D906F400JS4
200.0*	JP	39D207F250JP4	110.0	JT	39D117F400JT4
250.0	JS	39D257F250JS4	<b>450 WVDC @ + 85°C, SURGE = 525 V</b>		
300.0*	JT	39D307F250JT4	1.0	EE	39D105F450EE4
<b>300 WVDC @ + 85°C, SURGE = 350 V</b>			3.0	EJ	39D305F450EJ4
5.0	EE	39D505F300EE4	5.0	EL	39D505F450EL4
10.0	EJ	39D106F300EJ4	10.0	FL	39D106F450FL4
15.0	EL	39D156F300EL4	15.0	FP	39D156F450FP4
20.0	FJ	39D206F300FJ4	20.0	GL	39D206F450GL4
25.0	HE	39D256F300HE4	25.0	GP	39D256F450GP4
30.0	FL	39D306F300FL4	35.0	HP	39D356F450HP4
40.0	FP	39D406F300FP4	45.0	HS	39D456F450HS4
50.0	GL	39D506F300GL4	50.0	JP	39D506F450JP4
65.0	GP	39D656F300GP4	65.0	JS	39D656F450JS4
75.0	HL	39D756F300HL4	75.0	JT	39D756F450JT4

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