

## Aluminum Capacitors + 105 °C, Tubular, Axial Lead



### FEATURES

- Temperature range - 55 °C to + 105 °C
- Long life
- Low ESR
- Material categorization: For definitions of compliance please see [www.vishay.com/doc?99912](http://www.vishay.com/doc?99912)



QUICK REFERENCE DATA	
DESCRIPTION	VALUE
Nominal case size Ø D x L in mm	0.625" x 1.125" [15.875 x 28.575] to 1.0" x 3.625" [25.4 x 92.075]
Operating temperature	- 55 °C to + 105 °C
Rated capacitance range, C <sub>R</sub>	12 µF to 33 000 µF
Tolerance on C <sub>R</sub>	- 10 %, + 50 %
Rated voltage range, U <sub>R</sub>	6.3 WV <sub>DC</sub> to 300 WV <sub>DC</sub>
Termination	Axial leads
Life validation test 2000 h at 105 °C	$\Delta$ CAP ≤ 15 % from initial measurement. $\Delta$ ESR ≤ 1.25 x initial specified limit. $\Delta$ DCL ≤ initial specified limit.
Shelf life 500 h at 105 °C	$\Delta$ CAP ≤ 10 % from initial measurement. $\Delta$ ESR ≤ 1.15 x initial specified limit. $\Delta$ DCL ≤ 2.0 x initial specified limit.
DC leakage current	$I = K\sqrt{CV}$ K = 0.5 at + 25 °C K = 3.0 at + 105 °C I in µA, C in µF, V in Volts

RIPPLE CURRENT MULTIPLIERS			
TEMPERATURE			
AMBIENT TEMPERATURE		MULTIPLIERS	
+ 105 °C		0.4	
+ 65 °C		1.7	
+ 45 °C		2.0	
+ 25 °C		2.6	
FREQUENCY (Hz)			
WV <sub>DC</sub>	50 TO 60	300 TO 400	1000 AND UP
0 to 60	0.85	1.10	1.15
61 to 250	0.83	1.15	1.20

LOW TEMPERATURE PERFORMANCE	
CAPACITANCE RATIO C <sup>-55 °C</sup> /C <sup>+25 °C</sup> MINIMUM AT 120 Hz	
RATED VOLTAGE WV <sub>DC</sub>	CAPACITANCE REMAINING
0 to 25	75 %
26 to 100	80 %
101 to 250	85 %
ESR RATIO ESR <sup>-55 °C</sup> /ESR <sup>+25 °C</sup> MAXIMUM AT 120 Hz	
RATED VOLTAGE WV <sub>DC</sub>	MULTIPLIER
0 to 9	10
10 to 40	12
41 to 250	18

DIMENSIONS in inches [millimeters]					
CASE CODE	STYLE 1 AND 2 INSULATING SLEEVE		STYLE 3 AND 7 INSULATING SLEEVE, COATED END SEAL		TYPICAL WEIGHT
	D	L	D	L	
FE	0.635 ± 0.020 [16.1 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	1.187 ± 0.062 [30.2 ± 1.57]	0.32 oz. (9.0 g)
FJ	0.635 ± 0.020 [16.1 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	1.687 ± 0.062 [42.9 ± 1.57]	0.39 oz. (11.0 g)
FL	0.635 ± 0.020 [16.1 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	2.187 ± 0.062 [55.6 ± 1.57]	0.53 oz. (15.0 g)
FP	0.635 ± 0.020 [16.1 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	2.687 ± 0.062 [68.3 ± 1.57]	0.63 oz. (18.0 g)
FS	0.635 ± 0.020 [16.1 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	3.187 ± 0.062 [81.0 ± 1.57]	0.88 oz. (25.0 g)
FT	0.635 ± 0.020 [16.1 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.57]	0.635 ± 0.020 [16.1 ± 0.51]	3.687 ± 0.062 [93.7 ± 1.57]	0.98 oz. (28.0 g)
GE	0.760 ± 0.020 [19.3 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	1.187 ± 0.062 [30.2 ± 1.57]	0.46 oz. (13.0 g)
GJ	0.760 ± 0.020 [19.3 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	1.687 ± 0.062 [42.9 ± 1.57]	0.67 oz. (19.0 g)

<b>DIMENSIONS</b> in inches [millimeters]					
CASE CODE	STYLE 1 AND 2 INSULATING SLEEVE		STYLE 3 AND 7 INSULATING SLEEVE, COATED END SEAL		TYPICAL WEIGHT
	D	L	D	L	
GL	0.760 ± 0.020 [19.3 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	2.187 ± 0.062 [55.6 ± 1.57]	0.74 oz. (21.0 g)
GP	0.760 ± 0.020 [19.3 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	2.687 ± 0.062 [68.3 ± 1.57]	0.88 oz. (25.0 g)
GS	0.760 ± 0.020 [19.3 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	3.187 ± 0.062 [81.0 ± 1.57]	1.16 oz. (33.0 g)
GT	0.760 ± 0.020 [19.3 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.57]	0.760 ± 0.020 [19.3 ± 0.51]	3.687 ± 0.062 [93.7 ± 1.57]	1.33 oz. (38.0 g)
HE	0.885 ± 0.020 [22.5 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	1.187 ± 0.062 [30.2 ± 1.57]	0.63 oz. (18.0 g)
HJ	0.885 ± 0.020 [22.5 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	1.687 ± 0.062 [42.9 ± 1.57]	0.95 oz. (27.0 g)
HL	0.885 ± 0.020 [22.5 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	2.187 ± 0.062 [55.6 ± 1.57]	1.02 oz. (29.0 g)
HP	0.885 ± 0.020 [22.5 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	2.687 ± 0.062 [68.3 ± 1.57]	1.37 oz. (39.0 g)
HS	0.885 ± 0.020 [22.5 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	3.187 ± 0.062 [81.0 ± 1.57]	1.72 oz. (49.0 g)
HT	0.885 ± 0.020 [22.5 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.57]	0.885 ± 0.020 [22.5 ± 0.51]	3.687 ± 0.062 [93.7 ± 1.57]	2.07 oz. (59.0 g)
JE	1.010 ± 0.020 [25.7 ± 0.51]	1.141 ± 0.062 [29.0 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	1.187 ± 0.062 [30.2 ± 1.57]	0.81 oz. (23.0 g)
JJ	1.010 ± 0.020 [25.7 ± 0.51]	1.641 ± 0.062 [41.7 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	1.687 ± 0.062 [42.9 ± 1.57]	1.02 oz. (29.0 g)
JL	1.010 ± 0.020 [25.7 ± 0.51]	2.141 ± 0.062 [54.4 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	2.187 ± 0.062 [55.6 ± 1.57]	1.54 oz. (44.0 g)
JP	1.010 ± 0.020 [25.7 ± 0.51]	2.641 ± 0.062 [67.1 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	2.687 ± 0.062 [68.3 ± 1.57]	1.86 oz. (53.0 g)
JS	1.010 ± 0.020 [25.7 ± 0.51]	3.141 ± 0.062 [79.8 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	3.187 ± 0.062 [81.0 ± 1.57]	2.21 oz. (63.0 g)
JT	1.010 ± 0.020 [25.7 ± 0.51]	3.641 ± 0.062 [92.5 ± 1.57]	1.010 ± 0.020 [25.7 ± 0.51]	3.687 ± 0.062 [93.7 ± 1.57]	2.52 oz. (72.0 g)



<b>PART NUMBER INFORMATION</b>					
601D TYPE	158 CAPACITANCE	F CAPACITANCE TOLERANCE	6R3 DC VOLTAGE RATING	FE CASE CODE	1 CASE STYLE
Identifies the series name.	Expressed in pF. The first two digits are significant figures. The third is the number of zeros.	F = - 10 %/+ 50 % (std.)	Expressed in volts. The letter "R" signifies a decimal point (i.e. 6R3 = 6.3 V).	See table Dimensions	1 = PVC sleeve (std.) 2 = Polyester sleeve 3 = Polyester sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents) 7 = PVC sleeve with epoxy end seal (required for exposure to halogenated cleaning solvents)



ORDERING EXAMPLE (1)

Electrolytic capacitor 601D series: 601D158F050GL1

Note

(1) For lead (Pb)-free/RoHS compliant products add suffix "E3" to part number. Example: 601D158F050GLE3

ELECTRICAL DATA AND ORDERING INFORMATION					
CAPACITANCE (µF)	PART NUMBER	NOMINAL CASE SIZE D x L (in)	LEAD DIAMETER W (in)	MAX. ESR AT 120 Hz/25 °C (Ω)	MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)
<b>6.3 WV<sub>DC</sub> AT + 85 °C, SURGE = 8 V</b>					
1500	601D158F6R3FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.311	1.04
2700	601D278F6R3FJ1	0.625 x 1.625		0.148	1.76
3900	601D398F6R3FL1	0.625 x 2.125		0.098	2.41
5600	601D568F6R3FP1	0.625 x 2.625		0.074	3.05
6800	601D688F6R3FS1	0.625 x 3.125		0.060	3.66
8200	601D828F6R3FT1	0.625 x 3.625		0.051	4.26
2700	601D278F6R3GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.169	1.58
5600	601D568F6R3GJ1	0.750 x 1.625		0.083	2.60
8200	601D828F6R3GL1	0.750 x 2.125		0.057	3.52
10 000	601D109F6R3GP1	0.750 x 2.625		0.043	4.40
12 000	601D129F6R3GS1	0.750 x 3.125		0.037	5.13
15 000	601D159F6R3GT1	0.750 x 3.625		0.031	5.98
3900	601D398F6R3HE1	0.875 x 1.125		0.118	2.09
8200	601D828F6R3HJ1	0.875 x 1.625		0.059	3.38
12 000	601D129F6R3HL1	0.875 x 2.125		0.042	4.47
15 000	601D159F6R3HP1	0.875 x 2.625		0.033	5.54
18 000	601D189F6R3HS1	0.875 x 3.125		0.027	6.56
22 000	601D229F6R3HT1	0.875 x 3.625		0.023	7.52
5600	601D568F6R3JE1	1.000 x 1.125		0.093	2.57
10 000	601D109F6R3JJ1	1.000 x 1.625		0.049	4.05
18 000	601D189F6R3JL1	1.000 x 2.125		0.033	5.44
22 000	601D229F6R3JP1	1.000 x 2.625	0.026	6.72	
27 000	601D279F6R3JS1	1.000 x 3.125	0.022	7.86	
33 000	601D339F6R3JT1	1.000 x 3.625	0.019	8.98	
<b>10 WV<sub>DC</sub> AT + 85 °C, SURGE = 15 V</b>					
1000	601D108F010FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.332	1.00
2200	601D228F010FJ1	0.625 x 1.625		0.157	1.70
3300	601D338F010FL1	0.625 x 2.125		0.106	2.31
4700	601D478F010FP1	0.625 x 2.625		0.080	2.94
5600	601D568F010FS1	0.625 x 3.125		0.065	3.52
6800	601D686F010FT1	0.625 x 3.625		0.055	4.11
2200	601D228F010GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.182	1.53
3900	601D398F010GJ1	0.750 x 1.625		0.091	2.50
6800	601D688F010GL1	0.750 x 2.125		0.061	3.40
8200	601D828F010GP1	0.750 x 2.625		0.047	4.25
10 000	601D109F010GS1	0.750 x 3.125		0.041	5.00
12 000	601D129F010GT1	0.750 x 3.625		0.035	5.72
3300	601D338F010HE1	0.875 x 1.125		0.127	2.02
5600	601D568F010HJ1	0.875 x 1.625		0.064	3.26
8200	601D828F010HL1	0.875 x 2.125		0.044	4.38
12 000	601D129F010HP1	0.875 x 2.625		0.036	5.30
15 000	601D159F010HS1	0.875 x 3.125		0.029	6.43
18 000	601D189F010HT1	0.875 x 3.625		0.025	7.37
3900	601D398F010JE1	1.000 x 1.125		0.099	2.49
8200	601D828F010JJ1	1.000 x 1.625		0.050	4.00
13 000	601D139F010JL1	1.000 x 2.125		0.036	5.27
18 000	601D189F010JP1	1.000 x 2.625	0.028	6.45	
22 000	601D229F010JS1	1.000 x 3.125	0.023	7.68	
27 000	601D279F010JT1	1.000 x 3.625	0.020	8.75	



<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>					
<b>CAPACITANCE (<math>\mu</math>F)</b>	<b>PART NUMBER</b>	<b>NOMINAL CASE SIZE D x L (in)</b>	<b>LEAD DIAMETER W (in)</b>	<b>MAX. ESR AT 120 Hz/25 °C (<math>\Omega</math>)</b>	<b>MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)</b>
<b>16 WV<sub>DC</sub> AT + 85 °C, SURGE = 20 V</b>					
820	601D827F016FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.349	0.99
1800	601D188F016FJ1	0.625 x 1.625		0.175	1.62
2700	601D278F016FL1	0.625 x 2.125		0.115	2.23
3300	601D338F016FP1	0.625 x 2.625		0.087	2.83
3900	601D398F016FS1	0.625 x 3.125		0.071	3.37
4700	601D478F016FT1	0.625 x 3.625		0.060	3.94
1500	601D158F016GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.198	1.47
3300	601D338F016GJ1	0.750 x 1.625		0.098	2.40
4700	601D478F016GL1	0.750 x 2.125		0.067	3.26
5600	601D568F016GP1	0.750 x 2.625		0.051	4.07
8200	601D828F016GS1	0.750 x 3.125		0.042	4.87
10 000	601D109F016GT1	0.750 x 3.625		0.036	5.64
2200	601D228F016HE1	0.875 x 1.125		0.139	1.93
4700	601D478F016HJ1	0.875 x 1.625		0.070	3.12
6800	601D688F016HL1	0.875 x 2.125		0.048	4.20
10 000	601D109F016HP1	0.875 x 2.625		0.037	5.23
12 000	601D129F016HS1	0.875 x 3.125		0.031	6.19
15 000	601D159F016HT1	0.875 x 3.625		0.027	7.06
3300	601D338F016JE1	1.000 x 1.125		0.108	2.38
6800	601D688F016JJ1	1.000 x 1.625		0.055	3.83
10 000	601D109F016JL1	1.000 x 2.125	0.038	5.10	
<b>25 WV<sub>DC</sub> AT + 85 °C, SURGE = 40 V</b>					
560	601D567F025FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.383	0.94
1000	601D108F025FJ1	0.625 x 1.625		0.198	1.52
1500	601D158F025FL1	0.625 x 2.125		0.125	2.14
2200	601D228F025FP1	0.625 x 2.625		0.096	2.68
2700	601D278F025FS1	0.625 x 3.125		0.078	3.22
3300	601D338F025FT1	0.625 x 3.625		0.065	3.79
1000	601D108F025GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.213	1.41
1800	601D188F025GJ1	0.750 x 1.625		0.110	2.27
2700	601D278F025GL1	0.750 x 2.125		0.073	3.11
3900	601D398F025GP1	0.750 x 2.625		0.056	3.91
4700	601D478F025GS1	0.750 x 3.125		0.045	4.68
5600	601D568F025GT1	0.750 x 3.625		0.038	5.43
1500	601D158F025HE1	0.875 x 1.125		0.157	1.81
2700	601D278F025HJ1	0.875 x 1.625		0.076	2.98
3900	601D398F025HL1	0.875 x 2.125		0.052	4.04
5600	601D568F025HP1	0.875 x 2.625		0.040	5.04
6800	601D688F025HS1	0.875 x 3.125		0.033	6.00
8200	601D828F025HT1	0.875 x 3.625		0.028	6.91
1800	601D188F025JE1	1.000 x 1.125		0.117	2.28
3900	601D398F025JJ1	1.000 x 1.625		0.059	3.70
5600	601D568F025JL1	1.000 x 2.125		0.040	4.96
8200	601D828F025JP1	1.000 x 2.625		0.031	6.14
10 000	601D109F025JS1	1.000 x 3.125	0.027	7.15	
12 000	601D129F025JT1	1.000 x 3.625	0.023	8.21	



<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>					
<b>CAPACITANCE (<math>\mu</math>F)</b>	<b>PART NUMBER</b>	<b>NOMINAL CASE SIZE D x L (in)</b>	<b>LEAD DIAMETER W (in)</b>	<b>MAX. ESR AT 120 Hz/25 °C (<math>\Omega</math>)</b>	<b>MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)</b>
<b>35 WV<sub>DC</sub> AT + 85 °C, SURGE = 50 V</b>					
330	601D337F035FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.480	0.84
680	601D687F035FJ1	0.625 x 1.625		0.231	1.40
1000	601D108F035FL1	0.625 x 2.125		0.154	1.93
1500	601D158F035FP1	0.625 x 2.625		0.118	2.42
1800	601D188F035FS1	0.625 x 3.125		0.095	2.91
2200	601D228F035FT1	0.625 x 3.625		0.080	3.40
680	601D687F035GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.266	1.26
1200	601D128F035GJ1	0.750 x 1.625		0.133	2.06
2200	601D228F035GL1	0.750 x 2.125		0.087	2.84
2700	601D278F035GP1	0.750 x 2.625		0.068	3.52
3300	601D338F035GS1	0.750 x 3.125		0.054	4.25
3900	601D398F035GT1	0.750 x 3.625		0.046	4.95
1000	601D108F035HE1	0.875 x 1.125		0.182	1.68
2200	601D228F035HJ1	0.875 x 1.625		0.091	2.73
2700	601D278F035HL1	0.875 x 2.125		0.062	3.67
3900	601D398F035HP1	0.875 x 2.625		0.047	4.61
4700	601D478F035HS1	0.875 x 3.125		0.039	5.46
5600	601D568F035HT1	0.875 x 3.625		0.033	6.33
1200	601D128F035JE1	1.000 x 1.125		0.146	2.04
2700	601D278F035JJ1	1.000 x 1.625		0.071	3.35
3900	601D398F035JL1	1.000 x 2.125	0.048	4.52	
5600	601D568F035JP1	1.000 x 2.625	0.037	5.62	
6800	601D688F035JS1	1.000 x 3.125	0.030	6.66	
8200	601D828F035JT1	1.000 x 3.625	0.026	7.66	
<b>50 WV<sub>DC</sub> AT + 85 °C, SURGE = 75 V</b>					
270	601D277F050FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.519	0.81
470	601D477F050FJ1	0.625 x 1.625		0.249	1.35
680	601D687F050FL1	0.625 x 2.125		0.165	1.87
1000	601D108F050FP1	0.625 x 2.625		0.128	2.33
1200	601D128F050FS1	0.625 x 3.125		0.107	2.76
1500	601D158F050FT1	0.625 x 3.625		0.087	3.28
470	601D477F050GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.285	1.22
1000	601D108F050GJ1	0.750 x 1.625		0.139	2.02
1500	601D158F050GL1	0.750 x 2.125		0.095	2.73
1800	601D188F050GP1	0.750 x 2.625		0.071	3.45
2200	601D228F050GS1	0.750 x 3.125		0.060	4.08
2700	601D278F050GT1	0.750 x 3.625		0.050	4.76
680	601D687F050HE1	0.875 x 1.125		0.196	1.62
1500	601D158F050HJ1	0.875 x 1.625		0.099	2.63
2200	601D228F050HL1	0.875 x 2.125		0.067	3.55
2700	601D278F050HP1	0.875 x 2.625		0.051	4.44
3300	601D338F050HS1	0.875 x 3.125		0.042	5.28
3900	601D398F050HT1	0.875 x 3.625		0.036	6.12
1000	601D108F050JE1	1.000 x 1.125		0.148	2.03
1800	601D188F050JJ1	1.000 x 1.625		0.077	3.23
2700	601D278F050JL1	1.000 x 2.125	0.052	4.37	
3900	601D398F050JP1	1.000 x 2.625	0.040	5.44	
4700	601D478F050JS1	1.000 x 3.125	0.033	6.47	
5600	601D568F050JT1	1.000 x 3.625	0.028	7.45	



<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>					
<b>CAPACITANCE (<math>\mu</math>F)</b>	<b>PART NUMBER</b>	<b>NOMINAL CASE SIZE D x L (in)</b>	<b>LEAD DIAMETER W (in)</b>	<b>MAX. ESR AT 120 Hz/25 °C (<math>\Omega</math>)</b>	<b>MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)</b>
<b>63 WV<sub>DC</sub> AT + 85 °C, SURGE = 90 V</b>					
220	601D227F063FE1	0.625 x 1.125	No. 20 AWG (0.032)	0.563	0.78
470	601D477F063FJ1	0.625 x 1.625		0.269	1.30
680	601D687F063FL1	0.625 x 2.125		0.178	1.80
820	601D827F063FP1	0.625 x 2.625		0.134	2.27
1000	601D108F063FS1	0.625 x 3.125		0.111	2.70
1200	601D128F063FT1	0.625 x 3.625		0.095	3.13
390	601D397F063GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.304	1.18
820	601D827F063GJ1	0.750 x 1.625		0.150	1.94
1200	601D128F063GL1	0.750 x 2.125		0.105	2.59
1500	601D158F063GP1	0.750 x 2.625		0.080	3.26
1800	601D188F063GS1	0.750 x 3.125		0.062	3.99
2200	601D228F063GT1	0.750 x 3.625		0.053	4.62
680	601D687F063HE1	0.875 x 1.125		0.210	1.57
1200	601D128G063HJ1	0.875 x 1.625		0.109	2.50
1800	601D188F063HL1	0.875 x 2.125		0.070	3.47
2200	601D228F063HP1	0.875 x 2.625		0.054	4.31
2700	601D278F063HS1	0.875 x 3.125		0.045	5.12
3900	601D398F063HT1	0.875 x 3.625		0.038	5.98
820	601D827F063JE1	1.000 x 1.125		0.158	1.97
1800	601D188F063JJ1	1.000 x 1.625		0.081	3.14
2700	601D278F063JL1	1.000 x 2.125		0.055	4.25
3300	601D338F063JP1	1.000 x 2.625		0.042	5.31
3900	601D398F063JS1	1.000 x 3.125	0.034	6.31	
4700	601D478F063JT1	1.000 x 3.625	0.029	7.29	
<b>100 WV<sub>DC</sub> AT + 85 °C, SURGE = 150 V</b>					
68	601D686F100FE1	0.625 x 1.125	No. 20 AWG (0.032)	1.714	0.444
120	601D127F100FJ1	0.625 x 1.625		0.869	0.725
180	601D187F100FL1	0.625 x 2.125		0.561	1.010
270	601D277F100FP1	0.625 x 2.625		0.415	1.290
330	601D337F100FS1	0.625 x 3.125		0.330	1.570
390	601D397F100FT1	0.625 x 3.625		0.274	1.840
120	601D127F100GE1	0.750 x 1.125	No. 18 AWG (0.040)	0.986	0.656
270	601D277F100GJ1	0.750 x 1.625		0.461	1.110
390	601D387F100GL1	0.750 x 2.125		0.302	1.530
470	601D477F100GP1	0.750 x 2.625		0.230	1.920
560	601D567F100GS1	0.750 x 3.125		0.183	2.330
680	601D687F100GT1	0.750 x 3.625		0.152	2.730
180	601D187F100HE1	0.875 x 1.125		0.632	0.903
390	601D397F100HJ1	0.875 x 1.625		0.308	1.490
560	601D567F100HL1	0.875 x 2.125		0.205	2.030
680	601D687F100HP1	0.875 x 2.625		0.155	2.560
820	601D827F100HS1	0.875 x 3.125		0.124	3.080
1000	601D108F100HT1	0.875 x 3.625		0.108	3.530
270	601D277F100JE1	1.000 x 1.125		0.469	1.140
470	601D477F100JJ1	1.000 x 1.625		0.226	1.880
820	601D827F100JL1	1.000 x 2.125		0.152	2.560
1000	601D108F100JP1	1.000 x 2.625		0.120	3.140
1200	601D128F100JS1	1.000 x 3.125	0.093	3.830	
1500	601D157F100JT1	1.000 x 3.625	0.081	4.370	



<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>					
<b>CAPACITANCE (<math>\mu</math>F)</b>	<b>PART NUMBER</b>	<b>NOMINAL CASE SIZE D x L (in)</b>	<b>LEAD DIAMETER W (in)</b>	<b>MAX. ESR AT 120 Hz/25 °C (<math>\Omega</math>)</b>	<b>MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)</b>
<b>150 WV<sub>DC</sub> AT + 85 °C, SURGE = 200 V</b>					
33	601D336F150FE1	0.625 x 1.125	No. 20 AWG (0.032)	3.518	0.310
68	601D686F150FJ1	0.625 x 1.625		1.677	0.522
100	601D107F150FL1	0.625 x 2.125		1.114	0.718
120	601D127F150FP1	0.625 x 2.625		0.842	0.907
150	601D157F150FS1	0.625 x 3.125		0.672	1.100
180	601D187F150FT1	0.625 x 3.625		0.560	1.290
56	601D566F150GE1	0.750 x 1.125	No. 18 AWG (0.040)	2.089	0.451
100	601D107F150GJ1	0.750 x 1.625		1.033	0.740
150	601D157F150GL1	0.750 x 2.125		0.683	1.020
220	601D227F150GP1	0.750 x 2.625		0.511	1.290
270	601D277F150GS1	0.750 x 3.125		0.409	1.560
330	601D337F150GT1	0.750 x 3.625		0.341	1.820
82	601D826F150HE1	0.875 x 1.125		1.395	0.608
150	601D157F150HJ1	0.875 x 1.625		0.695	0.989
270	601D277F150HL1	0.875 x 2.125		0.451	1.370
330	601D337F150HP1	0.875 x 2.625		0.345	1.710
390	601D397F150HS1	0.875 x 3.125		0.273	2.080
470	601D477F150HT1	0.875 x 3.625		0.226	2.440
100	601D107F150JE1	1.000 x 1.125		1.082	0.753
220	601D227F150JJ1	1.000 x 1.625		0.502	1.260
330	601D337F150JL1	1.000 x 2.125	0.328	1.740	
470	601D477F150JP1	1.000 x 2.625	0.244	2.200	
560	601D566F150JS1	1.000 x 3.125	0.195	2.650	
680	601D687F150JT1	1.000 x 3.625	0.165	3.070	
<b>200 WV<sub>DC</sub> AT + 85 °C, SURGE = 250 V</b>					
27	601D276F200FE1	0.625 x 1.125	No. 20 AWG (0.032)	3.985	0.292
56	601D566F200FJ1	0.625 x 1.625		1.892	0.491
82	601D826F200FL1	0.625 x 2.125		1.242	0.680
100	601D107F200FP1	0.625 x 2.625		0.925	0.865
120	601D127F200FS1	0.625 x 3.125		0.761	1.032
150	601D157F200FT1	0.625 x 3.625		0.651	1.190
47	601D476F200GE1	0.750 x 1.125	No. 18 AWG (0.040)	2.354	0.424
82	601D826F200GJ1	0.750 x 1.625		1.142	0.704
120	601D127F200GL1	0.750 x 2.125		0.774	0.956
180	601D187F200GP1	0.750 x 2.625		0.578	1.210
220	601D227F200GS1	0.750 x 3.125		0.462	1.460
270	601D277F200GT1	0.750 x 3.625		0.385	1.710
120	601D127F200HJ1	0.875 x 1.625		0.787	0.930
180	601D187F200HL1	0.875 x 2.125		0.521	1.270
270	601D277F200HP1	0.875 x 2.625		0.390	1.610
330	601D337F200HS1	0.875 x 3.125		0.302	1.970
390	601D397F200HT1	0.875 x 3.625		0.254	2.300
82	601D826F200JE1	1.000 x 1.125		1.128	0.737
180	601D187F200JJ1	1.000 x 1.625		0.560	1.200
270	601D277F200JL1	1.000 x 2.125		0.365	1.650
390	601D397F200JP1	1.000 x 2.625	0.278	2.060	
470	601D477F200JS1	1.000 x 3.125	0.221	2.490	
560	601D567F200JT1	1.000 x 3.625	0.183	2.910	





<b>ELECTRICAL DATA AND ORDERING INFORMATION</b>					
<b>CAPACITANCE (<math>\mu</math>F)</b>	<b>PART NUMBER</b>	<b>NOMINAL CASE SIZE D x L (in)</b>	<b>LEAD DIAMETER W (in)</b>	<b>MAX. ESR AT 120 Hz/25 °C (<math>\Omega</math>)</b>	<b>MAX. RIPPLE CURRENT AT 120 Hz/85 °C (A)</b>
<b>250 WV<sub>DC</sub> AT + 85 °C, SURGE = 300 V</b>					
15	601D156F250FE1	0.625 x 1.125	No. 20 AWG (0.032)	7.136	0.22
33	601D336F250FJ1	0.625 x 1.625		3.228	0.38
47	601D476F250FL1	0.625 x 2.125		2.132	0.52
68	601D686F250FP1	0.625 x 2.625		1.591	0.66
82	601D826F250FS1	0.625 x 3.125		1.270	0.80
100	601D107F250FT1	0.625 x 3.625		1.057	0.94
27	601D276F250GE1	0.750 x 1.125	No. 18 AWG (0.040)	3.614	0.34
56	601D566F250GJ1	0.750 x 1.625		1.721	0.57
100	601D107F250GL1	0.750 x 2.125		1.130	0.79
120	601D127F250GP1	0.750 x 2.625		0.880	0.98
150	601D157F250GS1	0.750 x 3.125		0.690	1.20
180	601D187F250GT1	0.750 x 3.625		0.568	1.41
47	601D476F250HE1	0.875 x 1.125		2.369	0.47
100	601D107F250HJ1	0.875 x 1.625		1.148	0.77
150	601D157F250HL1	0.875 x 2.125		0.753	1.06
180	601D187F250HP1	0.875 x 2.625		0.574	1.33
220	601D227F250HS1	0.875 x 3.125		0.464	1.59
270	601D277F250HT1	0.875 x 3.625		0.375	1.89
56	601D566F250JE1	1.000 x 1.125		1.708	0.60
120	601D127F250JJ1	1.000 x 1.625		0.829	0.98
180	601D187F250JL1	1.000 x 2.125		0.548	1.34
270	601D277F250JP1	1.000 x 2.625		0.410	1.69
330	601D337F250JS1	1.000 x 3.125		0.328	2.04
390	601D397F250JT1	1.000 x 3.625		0.274	2.38
<b>300 WV<sub>DC</sub> AT + 85 °C, SURGE = 350 V</b>					
12	601D126F300FE1	0.625 x 1.125	No. 20 AWG (0.032)	8.217	0.20
27	601D276F300FJ1	0.625 x 1.625		3.809	0.35
39	601D396F300FL1	0.625 x 2.125		2.479	0.48
47	601D476F300FP1	0.625 x 2.625		1.839	0.61
56	601D566F300FS1	0.625 x 3.125		1.461	0.75
68	601D686F300FT1	0.625 x 3.625		1.231	0.87
22	601D226F300GE1	0.750 x 1.125	No. 18 AWG (0.040)	4.164	0.32
47	601D476F300GJ1	0.750 x 1.625		1.931	0.54
68	601D686F300GL1	0.750 x 2.125		1.294	0.74
100	601D107F300GP1	0.750 x 2.625		0.953	0.94
120	601D127F300GS1	0.750 x 3.125		0.795	1.12
150	601D157F300GT1	0.750 x 3.625		0.672	1.30
33	601D336F300HE1	0.875 x 1.125		2.712	0.44
68	601D686F300HJ1	0.875 x 1.625		1.296	0.72
100	601D107F300HL1	0.875 x 2.125		0.886	0.98
150	601D157F300HP1	0.875 x 2.625		0.679	1.22
180	601D187F300HS1	0.875 x 3.125		0.519	1.50
220	601D227F300HT1	0.875 x 3.625		0.441	1.74
47	601D476F300JE1	1.000 x 1.125		1.973	0.56
100	601D107F300JJ1	1.000 x 1.625		0.947	0.92
150	601D157F300JL1	1.000 x 2.125		0.637	1.25
180	601D187F300JP1	1.000 x 2.625		0.468	1.59
220	601D227F300JS1	1.000 x 3.125		0.386	1.88
270	601D277F300JT1	1.000 x 3.625		0.318	2.21





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