

# Type 066/066R 85 °C & 105 °C, Standard, Axial Leaded, Aluminum

## 85 °C & 105 °C, Standard



Ideal for general purpose use where long life at rated temperature and operating voltage are important. Type 066 is equipped with a molded top and uses an o-ring to ensure a long life seal and an expected life of more than ten years in most applications. Type 066X has extra capacitance. Type 066R has lower ESR and higher ripple capability.

### Highlights

- ◆ Long life, more than ten years in most applications
- ◆ Molded top
- ◆ Low DCL
- ◆ High Ripple
- ◆ General purpose

### Specifications

<b>Operating Temperature:</b>	-40 °C to +85 °C (Type 066R -40 °C to +105 °C)
<b>Rated Voltage:</b>	6.3 to 450 Vdc
<b>Capacitance:</b>	8.2 μF to 68,000 μF
<b>Capacitance Tolerance:</b>	-10 + 75%
<b>Leakage Current:</b>	≤0.005 CV μA @ +25 °C, ≤0.04 CV μA @ 85 °C
<b>Ripple Current Multipliers:</b>	<b>Ambient Temperature</b>

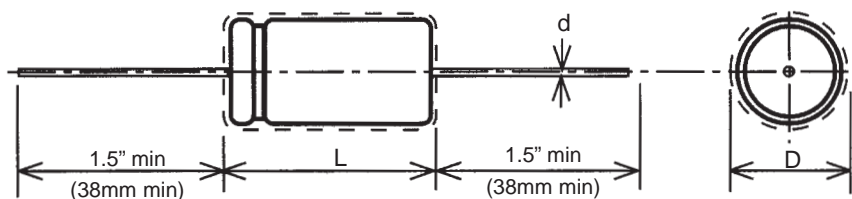
Type	45 °C	55 °C	65 °C	75 °C	85 °C	95 °C	105 °C
066	2.24	2.00	1.73	1.41	1.00	0.0	0.0
066R	1.68	1.54	1.38	1.21	1.00	0.74	0.30

### Frequency

	50 Hz	60 Hz	120 Hz	360 Hz	1 kHz	5 kHz	10 kHz+
0-60 μF	0.85	1.00	1.10	1.15	1.15	1.15	1.15
61-200 μF	0.83	1.00	1.15	1.20	1.20	1.20	1.20
201-450 μF	0.80	1.00	1.15	1.30	1.30	1.30	1.30

<b>Load Life:</b>	1,000 h @ +85 °C Δ Capacitance ±10% ESR 150% of limit DCL 100% of limit
<b>Shelf Life:</b>	100 h at 85 °C, capacitance, ESR and DCL, initial requirements
<b>Vibration:</b>	10 to 55 Hz; 0.06" and 10 g max, 2 h. in each plane

### Outline Drawings



d = 20 AWG for D < 0.75", 18 AWG for D ≥ 0.75"

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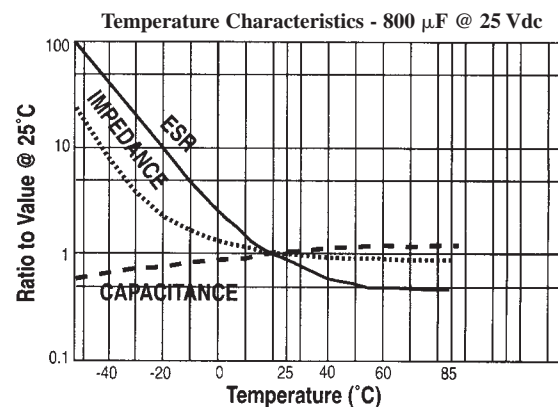
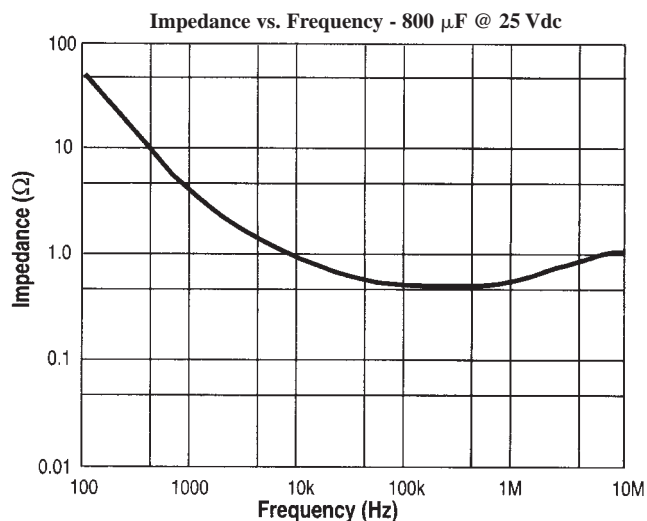
## Case Dimensions

Case Code	Inches		mm		Case Code	Inches		mm	
	D ± .016	L max	D ± .397	L max		D ± .016	L max	D ± .397	L max
FE	.635	1.250	16.13	31.75	HE	.885	1.250	22.48	31.75
FJ	.635	1.750	16.13	44.45	HJ	.885	1.750	22.48	44.45
FL	.635	2.250	16.13	57.15	HL	.885	2.250	22.48	57.15
FP	.635	2.750	16.13	69.85	HP	.885	2.750	22.48	69.85
FS	.635	3.250	16.13	82.55	HS	.885	3.250	22.48	82.55
FT	.635	3.750	16.13	95.25	HT	.885	3.750	25.65	95.25
GE	.760	1.250	19.30	31.75	JE	1.010	1.250	25.65	31.75
GJ	.760	1.750	19.30	44.45	JJ	1.010	1.750	25.65	44.45
GL	.760	2.250	19.30	57.15	JL	1.010	2.250	25.65	57.15
GP	.760	2.750	19.30	69.85	JP	1.010	2.750	25.65	69.85
GS	.760	3.250	19.30	82.55	JS	1.010	3.250	25.65	82.55
GT	.760	3.750	19.30	95.25	JT	1.010	3.75	25.65	92.25

## Part Numbering System

<b>066</b>	<b>682</b>	<b>U</b>	<b>6R3</b>	<b>JE</b>	<b>2</b>	<b>E</b>
<b>Type</b>	<b>Capacitance</b>	<b>Tolerance</b>	<b>Voltage</b>	<b>Case Code</b>	<b>Insulation</b>	<b>Epoxy Endseal</b>
066	6R8=6.8 μF	U=-10%+75%	6R3=6.3 Vdc		0 = Bare Can	E = Epoxy
066X	680=68 μF	T=-10%+50%	063=63 Vdc		1 = Polyester	(blank) = No Epoxy
066R	681=680 μF		100=100 Vdc		2 = PVC	
	682=6800 μF					

## Typical Performance Curves



# Type 066/066R 85 °C & 105 °C, Standard, Axial Leaded, Aluminum

## Ratings

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>6.3 Vdc (8 Vdc Surge)</b>						
1800	066182U6R3FE2	0.520	0.281	0.68	0.86	5/8 X 1 1/8
2700	066272U6R3GE2	0.340	0.185	0.85	1.1	3/4 X 1 1/8
3900	066392U6R3FJ2	0.260	0.141	1.10	1.4	5/8 X 1 5/8
4700	066472U6R3HE2	0.230	0.126	1.10	1.3	7/8 X 1 1/8
5600	066562U6R3GJ2	0.170	0.096	1.40	1.8	3/4 X 1 5/8
5600	066R562U6R3GE2	0.340	0.185	1.20	1.5	3/4 X 1 1/8
5600	066X562U6R3GE2	0.340	0.185	0.85	1.1	3/4 X 1 1/8
6800	066682U6R3JE2	0.180	0.104	1.30	1.5	1 X 1 1/8
8200	066822U6R3HJ2	0.120	0.065	1.80	2.2	7/8 X 1 5/8
10000	066103U6R3FS2	0.110	0.06	2.50	3.0	5/8 X 3 1/8
10000	066R103U6R3GJ2	0.170	0.096	2.00	2.5	3/4 X 1 5/8
12000	066123U6R3GP2	0.093	0.052	3.50	4.3	3/4 X 2 5/8
12000	066X123U6R3GJ2	0.170	0.096	1.40	1.8	3/4 X 1 5/8
15000	066153U6R3HL2	0.080	0.045	2.60	3.1	7/8 X 2 1/8
15000	066R153U6R3HJ2	0.120	0.065	2.60	3.1	7/8 X 1 5/8
18000	066183U6R3JL2	0.062	0.036	3	3.5	1 x 2 1/8
18000	066X183U6R3HJ2	0.120	0.065	1.8	2.2	7/8 x 1 5/8
22000	066223U6R3HS2	0.052	0.03	3.8	4.4	7/8 x 3 1/8
22000	066R223U6R3HL2	0.080	0.045	3.6	4.3	7/8 x 2 1/8
27000	066273U6R3JP2	0.049	0.029	3.7	4.3	1 x 2 5/8
27000	066X273U6R3HL2	0.080	0.045	2.6	3.1	7/8 x 2 1/8
33000	066333U6R3JS2	0.042	0.024	4.4	4.9	1 x 3 1/8
33000	066R333U6R3JL2	0.062	0.036	4.3	5.0	1 x 2 1/8
33000	066X333U6R3JL2	0.062	0.036	3	3.5	1 x 2 1/8
39000	066393U6R3JT2	0.037	0.022	4.9	5.5	1 x 3 5/8
47000	066R473U6R3JP2	0.049	0.028	5.3	6.1	1 X 2 5/8
47000	066X473U6R3JP2	0.049	0.028	3.8	4.3	1 X 2 5/8
56000	066R563U6R3JS2	0.041	0.024	6.2	7.0	1 X 3 1/8
56000	066X563U6R3JS2	0.041	0.024	4.4	4.9	1 X 3 1/8
68000	066R683U6R3JT2	0.037	0.022	7.0	7.8	1 X 3 5/8
68000	066X683U6R3JT2	0.037	0.022	4.9	5.5	1 X 3 5/8
<b>7.5 Vdc (9 Vdc Surge)</b>						
1800	066182U7R5FE2	0.520	0.281	0.67	0.86	5/8 X 1 1/8
2700	066272U7R5GE2	0.340	0.185	0.84	1.1	3/4 X 1 1/8
3300	066332U7R5FJ2	0.260	0.141	1.10	1.4	5/8 X 1 5/8
3900	066392U7R5HE2	0.230	0.126	1.10	1.3	7/8 X 1 1/8
4700	066R472U7R5GE2	0.340	0.185	1.20	1.5	3/4 X 1 1/8
5600	066562U7R5GJ2	0.170	0.096	1.40	1.8	3/4 X 1 5/8
5600	066X562U7R5GE2	0.340	0.185	0.84	1.1	3/4 X 1 1/8
8200	066822U7R5FS2	0.110	0.06	2.40	3.0	5/8 X 3 1/8
8200	066R822U7R5HJ2	0.120	0.065	1.80	2.2	7/8 X 1 5/8
10000	066103U7R5GP2	0.094	0.052	3.50	4.3	3/4 X 2 5/8
10000	066R103U7R5GJ2	0.170	0.096	2.00	2.5	3/4 X 1 5/8
12000	066123U7R5HL2	0.081	0.045	2.50	3.1	7/8 X 2 1/8
15000	066R153U7R5HJ2	0.120	0.065	2.60	3.1	7/8 X 1 5/8
15000	066X153U7R5HJ2	0.120	0.065	1.80	2.2	7/8 X 1 5/8
18000	066183U7R5JL2	0.063	0.036	3.00	3.5	1 X 2 1/8
22000	066223U7R5JP2	0.050	0.029	3.70	4.3	1 X 2 5/8
22000	066R223U7R5HL2	0.081	0.045	3.60	4.3	7/8 X 2 1/8
22000	066X223U7R5HL2	0.081	0.045	2.50	3.1	7/8 X 2 1/8
27000	066273U7R5JS2	0.042	0.024	4.30	4.9	1 X 3 1/8
33000	066333U7R5JT2	0.037	0.022	4.90	5.5	1 X 3 5/8
33000	066R333U7R5JL2	0.063	0.036	4.30	5.0	1 X 2 1/8
33000	066X333U7R5JL2	0.063	0.036	3.00	3.5	1 X 2 1/8
39000	066R393U7R5JP2	0.049	0.028	5.30	6.1	1 X 2 5/8

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>7.5 Vdc (9 Vdc Surge) (cont'd)</b>						
47000	066R473U7R5JS2	0.042	0.024	6.2	7.0	1 X 3 1/8
47000	066X473U7R5JP2	0.049	0.028	3.7	4.3	1 X 2 5/8
56000	0662563U7R5JT2	0.037	0.022	6.9	7.8	1 X 3 5/8
56000	066X563U7R5JS2	0.042	0.024	4.3	4.9	1 X 3 1/8
68000	066X683U7R5JT2	0.037	0.022	4.9	5.5	1 X 3 5/8
<b>10 Vdc (12 Vdc Surge)</b>						
1200	066122U010FE2	0.520	0.281	0.67	0.86	5/8 X 1 1/8
1800	066182U010GE2	0.340	0.185	0.84	1.1	3/4 X 1 1/8
2700	066272U010FJ2	0.260	0.141	1.1	1.4	5/8 X 1 5/8
3900	066392U010GJ2	0.170	0.096	1.4	1.8	3/4 X 1 5/8
3900	066R392U010GE2	0.340	0.185	1.2	1.5	3/4 X 1 1/8
4700	066X472U010GE2	0.340	0.185	0.84	1.1	3/4 X 1 1/8
5600	066562U010HJ2	0.120	0.065	1.8	2.2	7/8 X 1 5/8
6800	066682U010GP2	0.094	0.052	3.5	4.3	3/4 X 2 5/8
8200	066822U010HL2	0.081	0.045	2.5	3.1	7/8 X 2 1/8
8200	066R822U010GJ2	0.170	0.096	2.0	2.5	3/4 X 1 5/8
10000	066X103U010GJ2	0.170	0.096	1.4	1.8	3/4 X 1 5/8
12000	066123U010HJ2	0.120	0.065	2.6	3.1	7/8 X 1 5/8
12000	066123U010JL2	0.063	0.036	3.0	3.5	1 X 2 1/8
15000	066153U010HS2	0.053	0.03	3.7	4.4	7/8 X 3 1/8
15000	066X153U010HJ2	0.120	0.065	1.8	2.2	7/8 X 1 5/8
18000	066LR183U010HL2	0.081	0.045	3.6	4.3	7/8 X 2 1/8
18000	066183U010JP2	0.050	0.029	3.7	4.3	1 X 2 5/8
22000	066223U010JS2	0.042	0.024	4.3	4.9	1 X 3 1/8
22000	066X223U010HL2	0.081	0.045	2.5	3.1	7/8 X 2 1/8
27000	066273U010JT2	0.037	0.022	4.9	5.5	1 X 3 5/8
27000	066R273U010JL2	0.063	0.036	4.3	5.0	1 x 2 1/8
33000	066R333U010JP2	0.049	0.028	5.3	6.1	1 x 2 5/8
33000	066X333U010JL2	0.063	0.036	3.0	3.5	1 x 2 1/8
39000	066X393U010JP2	0.049	0.028	3.7	4.3	1 x 2 5/8
47000	066R473U010JS2	0.042	0.024	6.2	7.0	1 x 3 1/8
47000	066X473U010JS2	0.042	0.024	4.3	4.9	1 x 3 1/8
56000	066R563U010JT2	0.037	0.022	6.9	7.8	1 x 3 5/8
56000	066X563U010JT2	0.037	0.022	4.9	5.5	1 x 3 5/8
<b>16 Vdc (20 Vdc Surge)</b>						
1000	066102U016FE2	0.520	0.281	0.67	0.86	5/8 X 1 1/8
1500	066152U016GE2	0.340	0.185	0.84	1.1	3/4 X 1 1/8
2200	066222U016FJ2	0.260	0.141	1.1	1.4	5/8 X 1 5/8
2700	066R272U016GE2	0.340	0.185	1.2	1.5	4/4 X 1 1/8
3300	066332U016GJ2	0.170	0.096	1.4	1.8	3/4 X 1 5/8
3300	066X332U016GE2	0.340	0.185	0.84	1.1	3/4 x 1 1/8
4700	066472U016HJ2	0.120	0.065	1.8	2.2	7/8 x 1 5/8
5600	066R562U016GJ2	0.170	0.096	2.0	2.5	3/4 x 1 5/8
5600	066562U016GP2	0.094	0.052	3.5	4.3	3/4 x 2 5/8
6800	066682U016HL2	0.081	0.045	2.5	3.1	7/8 x 2 1/8
6800	066X682U016GJ2	0.170	0.096	1.4	1.8	3/4 x 1 5/8
8200	066R822U016HJ2	0.120	0.065	2.6	3.1	7/8 x 1 5/8
10000	066103U016JL2	0.063	0.036	3.0	3.5	1 x 2 1/8
10000	066X103U016HJ2	0.120	0.065	1.8	2.2	7/8 x 1 5/8
12000	066123U016HS2	0.053	0.03	3.7	4.4	7/8 x 3 1/8
12000	066R123U016HL2	0.081	0.045	3.6	4.3	7/8 x 2 1/8
15000	066153U016JP2	0.050	0.029	3.7	4.3	1 x 2 5/8
15000	066X153U016HL2	0.081	0.045	2.5	3.1	7/8 x 2 1/8
18000	066183U016JS2	0.042	0.024	4.3	4.9	1 x 3 1/8
18000	066R183U016JL2	0.063	0.036	4.3	5.0	1 x 2 1/8

# Type 066/066R 85 °C & 105 °C, Standard, Axial Leaded, Aluminum

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>16 Vdc (20 Vdc Surge) (cont'd)</b>						
22000	066223U016JT2	0.037	0.022	4.9	5.5	1 x 3 5/8
22000	066R223U016JP2	0.049	0.028	5.3	6.1	1 x 2 5/8
22000	066X223U016JL2	0.063	0.036	3.0	3.5	1 x 2 1/8
27000	066R273U016JS2	0.042	0.024	6.2	7.0	1 x 3 1/8
27000	066X273U016JP2	0.049	0.028	3.7	4.3	1 x 2 5/8
33000	066R333U016JT2	0.037	0.022	6.9	7.8	1 x 3 5/8
33000	066X333U016JS2	0.042	0.024	4.3	4.9	1 x 3 1/8
39000	066X393U016JT2	0.037	0.022	4.9	5.5	1 x 3 5/8
<b>25 Vdc (35 Vdc Surge)</b>						
560	066561U025FE2	0.510	0.267	0.66	0.87	5/8 x 11/8
820	066821U025GE2	0.340	0.178	0.82	1.1	3/4 x 11/8
1000	066102U025FJ2	0.260	0.133	1.1	1.5	5/8 x 1 5/8
1200	066122U025HE2	0.240	0.126	1.1	1.3	7/8 x 1 1/8
1800	066182U025GJ2	0.170	0.089	1.4	1.8	3/4 x 1 5/8
1800	066R182U025GE2	0.330	0.170	1.2	1.5	3/4 x 1 1/8
2200	066X222U025GE2	0.330	0.170	0.84	1.1	3/4 x 1 1/8
2700	066272U025HJ2	0.120	0.065	1.8	2.1	7/8 x 1 5/8
3900	066392U025HL2	0.082	0.045	2.5	3.0	7/8 x 2 1/8
3900	066R392U025GJ2	0.170	0.089	2.0	2.6	3/4 x 1 5/8
4700	066X472U025GJ2	0.170	0.089	1.4	1.8	3/4 x 1 5/8
5600	066562U025JL2	0.066	0.037	2.8	3.3	1 x 2 1/8
5600	066R562U025HJ2	0.120	0.062	2.6	3.2	7/8 x 1 5/8
6800	066682U025JP2	0.051	0.030	3.5	4.1	1 x 2 5/8
6800	066X682U025HJ2	0.120	0.062	1.8	2.2	7/8 x 1 5/8
8200	066822U025JS2	0.043	0.025	4.1	4.7	1 x 3 1/8
8200	066R822U025HL2	0.080	0.043	3.6	4.4	7/8 x 2 1/8
10000	066103U025JT2	0.038	0.023	4.7	5.2	1 x 3 5/8
10000	066X103U025HL2	0.080	0.043	2.5	3.1	7/8 x 2 1/8
12000	066R123U025JL2	0.062	0.035	4.2	5.0	1 x 2 1/8
15000	066R153U025JP2	0.049	0.027	5.2	6.1	1 x 2 5/8
15000	066X153U025JL2	0.062	0.035	3.0	3.5	1 x 2 1/8
18000	066X183U025JP2	0.049	0.027	3.7	4.3	1 x 2 5/8
22000	066R223U025JS2	0.041	0.024	6.1	7.0	1 x 3 1/8
22000	066R223U025JT2	0.037	0.021	6.9	7.8	1 x 3 5/8
22000	066X223U025JS2	0.041	0.024	4.3	5.0	1 x 3 1/8
27000	066X273U025JT2	0.037	0.021	4.9	5.5	1 x 3 5/8
<b>35 Vdc (45 Vdc Surge)</b>						
470	066471U035FE2	0.540	0.267	0.64	0.86	5/8 x 1 1/8
680	066681U035GE2	0.350	0.178	0.8	1.0	3/4 x 1 1/8
820	066821U035FJ2	0.270	0.133	1.1	1.4	5/8 x 1 5/8
1200	066122U035HE2	0.250	0.126	1.0	1.3	7/8 x 1 1/8
1200	066R122L035GE2	0.350	0.178	1.1	1.5	3/4 x 1 1/8
1500	066152U035GJ2	0.180	0.089	1.3	1.7	3/4 x 1 5/8
1500	066X152U035GE2	0.350	0.178	0.8	1.0	3/4 x 1 1/8
2200	066222U035HJ2	0.120	0.065	1.7	2.1	7/8 x 1 5/8
2200	066R222U035GJ2	0.180	0.089	1.9	2.5	3/4 x 1 5/8
2700	066272U035GP2	0.098	0.05	3.3	4.2	3/4 x 2 5/8
3300	066332U035HL2	0.085	0.045	2.4	3.0	7/8 x 2 1/8
3300	066X332U035GJ2	0.180	0.089	1.3	1.7	3/4 x 1 5/8
3900	066R392U035HJ2	0.120	0.065	2.4	3.0	7/8 x 1 5/8
4700	066X472U035HJ2	0.120	0.065	1.7	2.1	7/8 x 1 5/8
4700	066472U035JL2	0.068	0.038	2.8	3.3	1 x 2 1/8
5600	066562U035JP2	0.053	0.03	3.5	4.1	1 x 2 5/8
5600	066R562U035HL2	0.085	0.045	3.4	4.2	7/8 x 2 1/8
6800	066X682U035HL2	0.085	0.045	2.4	3.0	7/8 x 2 1/8

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>35 Vdc (45 Vdc Surge) (cont'd)</b>						
8200	066822U035JS2	0.045	0.025	4.1	4.7	1 x 3 1/8
8200	066R822U035JL2	0.067	0.037	4.0	4.7	1 x 2 1/8
10000	066R103U035JP2	0.053	0.030	4.9	5.8	1 x 2 5/8
10000	066X103U035JL2	0.067	0.037	2.8	3.3	1 x 2 1/8
12000	066R123U035JS2	0.044	0.025	5.8	6.7	1 x 3 1/8
12000	066X123U035JP2	0.053	0.030	3.5	4.1	1 x 2 5/8
15000	066R153U035JT2	0.039	0.023	6.5	7.4	1 x 3 5/8
18000	066X183U035JT2	0.039	0.023	4.6	5.3	1 x 3 5/8
<b>50 Vdc (70 Vdc Surge)</b>						
270	066271U050FE2	0.680	0.274	0.54	0.84	5/8 x 1 1/8
470	066471U050GE2	0.450	0.185	0.68	1.0	3/4 x 1 1/8
560	066561U050FJ2	0.340	0.141	0.91	1.4	5/8 x 1 5/8
680	066681U050HE2	0.310	0.133	0.88	1.3	7/8 x 1 1/8
680	066R681U050GE2	0.450	0.185	0.96	1.4	3/4 x 1 1/8
820	066821U050GJ2	0.230	0.096	1.1	1.7	3/4 x 1 5/8
820	066X821U050GE2	0.450	0.185	0.68	1.0	3/4 x 1 1/8
1000	066102U050JE2	0.240	0.104	1.0	1.4	1 x 1 1/8
1200	066122U050HJ2	0.160	0.067	1.5	2.1	7/8 x 1 5/8
1200	066R122U050GJ2	0.230	0.096	1.6	2.4	3/4 x 1 5/8
1500	066152U050FS2	0.140	0.060	2.0	3.0	5/8 x 3 1/8
1800	066182U050HL2	0.110	0.047	2.1	2.9	7/8 x 2 1/8
1800	066X182U050GJ2	0.230	0.096	1.1	1.7	3/4 x 1 5/8
2200	066R222U050HJ2	0.160	0.067	2.1	3.0	7/8 x 1 5/8
2700	066272U050JL2	0.083	0.039	2.5	3.2	1 x 2 1/8
2700	066X272U050HJ2	0.160	0.067	1.5	2.1	7/8 x 1 5/8
3300	066332U050HS2	0.068	0.031	3.1	4.2	7/8 x 3 1/8
3300	066R332U050HL2	0.110	0.046	3.0	4.1	7/8 x 2 1/8
3900	066392U050JP2	0.064	0.030	3.1	4.0	1 x 2 5/8
3900	066R392U050JL2	0.082	0.038	3.5	4.6	1 x 2 1/8
3900	066X392U050HL2	0.110	0.046	2.1	2.9	7/8 x 2 1/8
4700	066472U050JS2	0.054	0.026	3.7	4.6	1 x 3 1/8
5600	066562U050JT2	0.047	0.023	4.2	5.2	1 x 3 5/8
5600	066R562U050JP2	0.064	0.030	4.4	5.7	1 x 2 5/8
5600	066X562U050JL2	0.082	0.038	2.5	3.3	1 x 2 1/8
6800	066R682U050JS2	0.053	0.026	5.2	6.6	1 x 3 1/8
6800	066X682U050JP2	0.064	0.030	3.1	4.0	1 x 2 5/8
8200	066R822U050JT2	0.047	0.023	5.9	7.4	1 x 3 5/8
10000	066X103U050JS2	0.053	0.026	3.7	4.7	1 x 3 1/8
12000	066X123U050JT2	0.047	0.023	4.2	5.2	1 x 3 5/8
<b>63 Vdc (80 Vdc Surge)</b>						
180	066181U063FE2	0.810	0.281	0.48	0.83	5/8 x 1 1/8
270	066271U063GE2	0.530	0.185	0.6	1.0	3/4 x 1 1/8
390	066391U063FJ2	0.410	0.141	0.81	1.4	5/8 x 1 5/8
470	066R471U063GE2	0.530	0.185	0.86	1.4	3/4 x 1 1/8
560	066561U063GJ2	0.270	0.096	1.0	1.7	3/4 x 1 5/8
560	066X561U063GE2	0.530	0.185	0.61	1.0	3/4 x 1 1/8
680	066681U063JE2	0.280	0.111	0.96	1.4	1 x 1 1/8
820	066821U063HJ2	0.180	0.068	1.3	2.1	7/8 x 1 5/8
820	066R821U063GJ2	0.270	0.096	1.4	2.4	3/4 x 1 5/8
1000	066102U063FS2	0.170	0.061	1.8	2.9	5/8 x 3 1/8
1200	066122U063GP2	0.140	0.053	2.6	4.1	3/4 x 2 5/8
1200	066X122U063GJ2	0.270	0.096	1.0	1.7	3/4 x 1 5/8
1500	066152U063HL2	0.120	0.047	1.9	2.9	7/8 x 2 1/8
1500	066R152U063HJ2	0.180	0.067	1.9	2.9	7/8 x 1 5/8
1800	066182U063JL2	0.095	0.039	2.3	3.2	1 x 2 1/8

# Type 066/066R 85 °C & 105 °C, Standard, Axial Leaded, Aluminum

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>63 Vdc (80 Vdc Surge) (cont'd)</b>						
1800	066X182U063HJ2	0.180	0.067	1.3	2.1	7/8 x 1 5/8
2200	066222U063HS2	0.079	0.031	2.9	4.2	7/8 x 3 1/8
2200	066R222U063HL2	0.120	0.047	2.7	4.1	7/8 x 2 1/8
2700	066R272U063JL2	0.095	0.039	3.2	4.6	1 x 2 1/8
2700	066X272U063HL2	0.120	0.047	1.9	2.9	7/8 x 2 1/8
2700	066272U063JP2	0.074	0.03	2.9	4.0	1 x 2 5/8
3300	066332U063JS2	0.061	0.026	3.4	4.6	1 x 3 1/8
3900	066392U063JT2	0.053	0.024	3.9	5.2	1 x 3 5/8
3900	066R392U063JP2	0.073	0.03	4.1	5.7	1 x 2 5/8
3900	066X392U063JL2	0.095	0.039	2.3	3.2	1 x 2 1/8
4700	066R472U063JS2	0.061	0.026	4.8	6.6	1 x 3 1/8
5600	066R562U063JT2	0.053	0.024	5.5	7.3	1 x 3 5/8
5600	066X562U063JP2	0.073	0.030	2.9	4.0	1 x 2 5/8
6800	066X682U063JS2	0.061	0.026	3.4	4.6	1 x 3 1/8
8200	066X822U063JT2	0.053	0.024	3.9	5.2	1 x 3 5/8
<b>100 Vdc (125 Vdc Surge)</b>						
68	066680U100FE2	1.100	0.296	0.4	0.8	5/8 x 1 1/8
120	066121U100GE2	0.710	0.193	0.51	0.97	3/4 x 1 1/8
150	066151U100FJ2	0.550	0.148	0.68	1.3	5/8 x 1 5/8
180	066181U100HE2	0.480	0.141	0.67	1.2	7/8 x 1 1/8
220	066221U100GJ2	0.360	0.096	0.86	1.6	3/4 x 1 5/8
220	066R221U100GE2	0.710	0.193	0.72	1.4	3/4 x 1 1/8
270	066271U100JE2	0.360	0.111	0.82	1.4	1 x 1 1/8
270	066X271U100GE2	0.710	0.193	0.51	0.98	3/4 x 1 1/8
390	066391U100HJ2	0.240	0.07	1.1	2.0	7/8 x 1 5/8
470	066471U100GP2	0.190	0.055	2.2	4.0	3/4 x 2 5/8
470	066R471U100GJ2	0.360	0.096	1.2	2.3	3/4 x 1 5/8
560	066561U100HL2	0.160	0.049	1.6	2.8	7/8 x 2 1/8
560	066X561U100GJ2	0.360	0.096	0.86	1.6	3/4 x 1 5/8
680	066681U100JL2	0.120	0.04	2.0	3.2	1 x 2 1/8
680	066R681U100HJ2	0.240	0.07	1.6	2.9	7/8 x 1 5/8
820	066821U100HS2	0.100	0.033	2.5	4.1	7/8 x 3 1/8
820	066X821U100HJ2	0.240	0.07	1.1	2.0	7/8 x 1 5/8
1000	066102U100JP2	0.095	0.032	2.5	3.9	1 x 2 5/8
1000	066R102U100HL2	0.160	0.049	2.3	4.0	7/8 x 2 1/8
1200	066122U100JS2	0.078	0.027	3.0	4.5	1 x 3 1/8
1200	066X122U100HL2	0.160	0.049	1.6	2.8	7/8 x 2 1/8
1500	066152U100JT2	0.067	0.024	3.4	5.1	1 x 3 5/8
1500	066R152U100JL2	0.120	0.04	2.8	4.5	1 x 2 1/8
1800	066R182U100JP2	0.094	0.031	3.5	5.6	1 x 2 5/8
1800	066X182U100JL2	0.120	0.04	2.0	3.2	1 x 2 1/8
2200	066R222U100JS2	0.078	0.027	4.2	6.4	1 x 3 1/8
2200	066X222U100JP2	0.094	0.031	2.5	3.9	1 x 2 5/8
2700	066R272U100JT2	0.067	0.024	4.9	7.2	1 x 3 5/8
3300	066X332U100JS2	0.078	0.027	3.0	4.6	1 x 3 1/8
3900	066X392U100JT2	0.067	0.024	3.4	5.1	1 x 3 5/8
<b>200 Vdc (250 Vdc Surge)</b>						
22	066220U200FE2	2.000	0.889	0.3	0.43	5/8 x 1 1/8
33	066330U200GE2	1.300	0.563	0.39	0.54	3/4 x 1 1/8
33	066R330U200GE2	1.300	0.563	0.55	0.76	3/4 x 1 1/8
47	066470U200FJ2	0.990	0.437	0.52	0.72	5/8 x 1 5/8
56	066560U200HE2	0.840	0.378	0.52	0.71	7/8 x 1 1/8
56	066R560U200GJ2	0.640	0.281	0.93	1.30	3/4 x 1 5/8
68	066680U200GJ2	0.640	0.281	0.66	0.91	3/4 x 1 5/8
82	066820U200JE2	0.620	0.281	0.65	0.87	1 x 1 1/8

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>200 Vdc (250 Vdc Surge) (cont'd)</b>						
100	066R101U200HJ2	0.420	0.193	1.2	1.7	7/8 x 1 1/8
120	066121U200HJ2	0.420	0.193	0.88	1.2	7/8 x 1 5/8
150	066151U200GP2	0.320	0.141	1.7	2.4	3/4 x 2 5/8
150	066R151U200HL2	0.280	0.126	1.8	2.4	7/8 x 2 1/8
180	066181U200HL2	0.280	0.126	1.3	1.7	7/8 x 2 1/8
220	066221U200JL2	0.210	0.096	1.6	2.1	1 x 2 1/8
220	066R221U200JL2	0.210	0.096	2.2	2.9	1 x 2 1/8
270	066271U200HS2	0.170	0.081	2.0	2.6	7/8 x 3 1/8
270	066R271U200JP2	0.160	0.073	2.8	3.7	1 x 2 5/8
330	066331U200JP2	0.160	0.073	2.0	2.6	1 x 2 5/8
330	066R331U200JS2	0.130	0.061	3.4	4.4	1 x 3 1/8
390	066R391U200JT2	0.110	0.052	3.9	5.1	1 x 3 5/8
390	066391U200JS2	0.130	0.061	2.4	3.1	1 x 3 1/8
470	066471U200JT2	0.110	0.052	2.8	3.6	1 x 3 5/8
<b>250 Vdc (300 Vdc Surge)</b>						
22	066220U250FE2	2.200	0.889	0.29	0.42	5/8 x 1 1/8
22	066R220U250GE2	1.400	0.570	0.52	0.75	3/4 x 1 1/8
33	066330U250GE2	1.400	0.570	0.36	0.53	3/4 x 1 1/8
39	066390U250FJ2	1.100	0.444	0.49	0.71	5/8 x 1 5/8
47	066470U250HE2	0.930	0.385	0.49	0.71	7/8 x 1 1/8
47	066R470U250GJ2	0.700	0.289	0.87	1.3	3/4 x 1 5/8
56	066560U250GJ2	0.700	0.289	0.62	0.9	3/4 x 1 5/8
68	066680U250JE2	0.680	0.281	0.61	0.86	1 x 1 1/8
68	066R680U250HJ2	0.470	0.193	1.2	1.7	7/8 x 1 5/8
100	066101U250HJ2	0.470	0.193	0.83	1.2	7/8 x 1 5/8
120	066121U250GP2	0.360	0.148	1.6	2.3	3/4 x 2 5/8
120	066R121U250HL2	0.310	0.133	1.7	2.4	7/8 x 2 1/8
150	066151U250HL2	0.310	0.133	1.2	1.7	7/8 x 2 1/8
150	066R151U250JL2	0.230	0.096	2.1	2.9	1 x 2 1/8
220	066221U250JL2	0.230	0.096	1.5	2.0	1 x 2 1/8
220	066R221U250JP2	0.170	0.074	2.7	3.7	1 x 2 5/8
270	066271U250JP2	0.170	0.074	1.9	2.6	1 x 2 5/8
270	066R271U250JS2	0.140	0.061	3.2	4.4	1 x 3 1/8
330	066331U250JS2	0.140	0.061	2.3	3.1	1 x 3 1/8
330	066R331U250JT2	0.120	0.053	3.7	5.0	1 x 3 5/8
390	066391U250JT2	0.120	0.053	2.6	3.6	1 x 3 5/8
<b>300 Vdc (350 Vdc Surge)</b>						
15	066150U300FE2	4.600	2.300	0.21	0.28	5/8 x 1 1/8
22	066220U300GE2	2.900	1.218	0.27	0.36	3/4 x 1 1/8
22	066R220U300GE2	2.900	1.118	0.39	0.51	3/4 x 1 1/8
27	066270U300FJ2	2.300	1.110	0.36	0.48	5/8 x 1 5/8
39	066390U300HE2	1.900	0.963	0.37	0.48	7/8 x 1 1/8
39	066R390U300GJ2	1.500	0.733	0.66	0.86	3/4 x 1 5/8
47	066470U300GJ2	1.500	0.733	0.46	0.61	3/4 x 1 5/8
56	066R560U300HJ2	0.960	0.481	0.88	1.20	7/8 x 1 5/8
68	066680U300HJ2	0.960	0.481	0.62	0.82	7/8 x 1 5/8
100	066101U300GP2	0.740	0.370	1.2	1.60	3/4 x 2 5/8
100	066R101U300HL2	0.640	0.326	1.3	1.70	7/8 x 2 1/8
120	066121U300HL2	0.640	0.326	0.89	1.20	7/8 x 2 1/8
120	066R121U300JL2	0.460	0.237	1.6	2.10	1 x 2 1/8
150	066151U300JL2	0.460	0.237	1.1	1.50	1 x 2 1/8
180	066181U300HS2	0.390	0.200	1.4	1.80	7/8 x 3 1/8
180	066R181U300JP2	0.350	0.178	2.0	2.60	1 x 2 5/8
220	066221U300JP2	0.350	0.178	1.4	1.90	1 x 2 5/8
220	066R221U300JS2	0.280	0.141	2.5	3.20	1 x 3 1/8

# Type 066/066R 85 °C & 105 °C, Standard, Axial Leaded, Aluminum

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>300 Vdc (350 Vdc Surge) (cont'd)</b>						
270	066271U300JS2	0.280	0.141	1.7	2.2	1 x 3 1/8
270	066R271U300JT2	0.240	0.119	2.9	3.7	1 x 3 5/8
330	066331U300JT2	0.240	0.119	2.1	2.6	1 x 3 5/8
<b>350 Vdc (400 Vdc Surge)</b>						
12	066120U350FE2	5.000	2.37	0.20	0.28	5/8 x 1 1/8
18	066180U350GE2	3.200	1.48	0.26	0.35	3/4 x 1 1/8
18	066R180U350GE2	3.200	1.48	0.36	0.50	3/4 x 1 1/8
22	066220U350FJ2	2.500	1.19	0.34	0.47	5/8 x 1 5/8
27	066270U350HE2	2.100	0.963	0.35	0.47	7/8 x 1 1/8
33	066330U350GJ2	1.600	0.741	0.44	0.6	3/4 x 1 5/8
33	066R330U350GJ2	1.600	0.741	0.62	0.84	3/4 x 1 5/8
39	066390U350JE2	1.500	0.719	0.44	0.59	1 x 1 1/8
56	066560U350HJ2	1.000	0.496	0.59	0.80	7/8 x 1 5/8
56	066R560U350HJ2	1.000	0.496	0.83	1.10	7/8 x 1 5/8
68	066680U350GP2	0.800	0.378	1.10	1.60	3/4 x 2 5/8
82	066820U350HL2	0.700	0.333	0.84	1.10	7/8 x 2 1/8
82	066R820U350HL2	0.700	0.333	1.2	1.60	7/8 x 2 1/8
120	066R121U350JL2	0.500	0.244	1.5	2.00	1 x 2 1/8
120	066121U350JL2	0.500	0.244	1.1	1.40	1 x 2 1/8
150	066151U350JP2	0.380	0.185	1.4	1.80	1 x 2 5/8
150	066R151U350JP2	0.380	0.185	1.9	2.60	1 x 2 5/8
180	066181U350JS2	0.310	0.148	1.7	2.20	1 x 3 1/8
180	066R181U350JS2	0.310	0.148	2.3	3.10	1 x 3 1/8
220	066221U350JT2	0.260	0.126	1.9	2.60	1 x 3 5/8
220	066R221U350JT2	0.260	0.126	2.7	3.60	1 x 3 5/8
<b>400 Vdc (450 Vdc Surge)</b>						
10	066100U400FE2	5.400	2.370	0.19	0.27	5/8 x 1 1/8
12	066R120U400GE2	3.500	1.560	0.34	0.49	3/4 x 1 1/8
15	066150U400GE2	3.500	1.560	0.24	0.34	3/4 x 1 1/8
18	066180U400FJ2	2.700	1.190	0.32	0.46	5/8 x 1 5/8
22	066220U400HE2	2.300	1.040	0.33	0.46	7/8 x 1 1/8
27	066270U400GJ2	1.700	0.741	0.41	0.58	3/4 x 1 5/8
27	066R270U400GJ2	1.700	0.741	0.58	0.83	3/4 x 1 5/8
33	066330U400JE2	1.600	0.733	0.42	0.58	1 x 1 1/8
39	066R390U400HJ2	1.100	0.511	0.79	1.10	7/8 x 1 5/8
47	066470U400HJ2	1.100	0.511	0.56	0.78	7/8 x 1 5/8
56	066560U400GP2	0.870	0.393	1.1	1.5	3/4 x 2 5/8
56	066R560U400HL2	0.760	0.341	1.1	1.6	7/8 x 2 1/8
68	066680U400HL2	0.760	0.341	0.8	1.1	7/8 x 2 1/8
82	066R820U400JL2	0.550	0.244	1.4	2.0	1 x 2 1/8
100	066101U400JL2	0.550	0.244	1.0	1.4	1 x 2 1/8
100	066R101U400JP2	0.410	0.185	1.8	2.5	1 x 2 5/8
120	066121U400JP2	0.410	0.185	1.3	1.8	1 x 2 5/8
120	066R121U400JS2	0.330	0.148	2.2	3.1	1 x 3 1/8
150	066151U400JS2	0.330	0.148	1.6	2.2	1 x 3 1/8
150	066R151U400JT2	0.280	0.126	2.6	3.6	1 x 3 5/8
180	066181U400JT2	0.280	0.126	1.8	2.5	1 x 3 5/8

Cap. ( $\mu$ F)	Catalog Part Number	ESR Max. $\Omega$		Ripple A @ 85 °C		Nominal Size (in) D x L
		120 Hz	20 kHz	120 Hz	20 kHz	
<b>450 Vdc (500 Vdc Surge)</b>						
8.2	0668R2U450FE2	6.20	2.740	0.18	0.25	5/8 x 1 1/8
12	066120U450GE2	4.00	1.780	0.23	0.32	3/4 x 1 1/8
15	066150U450FJ2	3.10	1.410	0.30	0.43	5/8 x 1 5/8
18	066180U450HE2	2.60	1.190	0.31	0.44	7/8 x 1 1/8
27	066270U450GJ2	2.00	0.889	0.39	0.55	3/4 x 1 5/8
39	066390U450HJ2	1.30	0.585	0.52	0.73	7/8 x 1 5/8
47	066470U450GP2	1.00	0.444	1.00	1.40	3/4 x 2 5/8
56	066560U450HL2	0.87	0.393	0.75	1.00	7/8 x 2 1/8
82	066820U450JL2	0.63	0.281	0.94	1.30	1 x 2 1/8
100	066101U450JP2	0.47	0.215	1.20	1.70	1 x 2 5/8
120	066121U450JS2	0.38	0.170	1.50	2.00	1 x 3 1/8
150	066151U450JT2	0.32	0.148	1.70	2.40	1 x 3 5/8

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