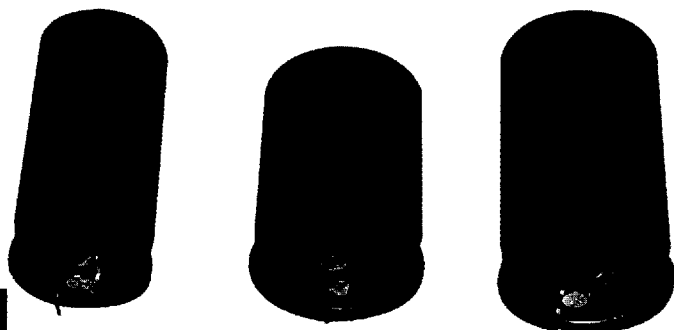


**380L - Low ESR • 380LX - High Capacitance**

Types 380L and 380LX capacitors are designed for use in power supply input and output circuits. The 380LX ratings deliver more capacitance in the same case size while the 380L ratings feature lower ESR.

Capacitance: 33 to 68,000µF ±20%

Voltage: 16 to 450Vdc

Operating Temperature: -40°C to +85°C

Life Test: 2,000 hours @ +85°C at full load

Shelf Test: 1,000 hours @ +85°C

DCL: ≤ 3√CV µA

Cap. µF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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Cap. µF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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16Vdc - 20 Vdc Surge

4,700	380L472M016H012	0.35	0.099	0.052	1.6	1.8	22x25
4,700	380LX472M016H202	0.50	0.141	0.075	1.6	1.8	22x20
6,800	380L682M016H022	0.35	0.068	0.036	1.8	2.1	22x30
6,800	380L682M016J012	0.35	0.068	0.036	1.8	2.1	25x25
6,800	380LX682M016G012	0.50	0.098	0.052	3.2	3.6	20x25
6,800	380LX682M016J202	0.50	0.098	0.052	1.8	2.1	25x20
8,200	380LX822M016G022	0.50	0.081	0.043	3.5	4.0	20x30
10,000	380L103M016H042	0.35	0.046	0.025	2.4	2.8	22x40
10,000	380L103M016J022	0.35	0.046	0.025	2.4	2.8	25x30
10,000	380L103M016K012	0.35	0.046	0.025	2.4	2.8	30x25
10,000	380LX103M016G032	0.50	0.066	0.035	3.8	4.3	20x35
10,000	380LX103M016H022	0.50	0.066	0.035	3.8	4.3	22x30
10,000	380LX103M016J012	0.50	0.066	0.035	3.8	4.3	25x25
10,000	380LX103M016K202	0.50	0.066	0.035	2.4	2.8	30x20
12,000	380LX123M016G032	0.50	0.055	0.029	4.5	5.2	20x35
12,000	380LX123M016H022	0.50	0.055	0.029	4.5	5.2	22x30
12,000	380LX123M016J012	0.50	0.055	0.029	4.5	5.2	25x25
15,000	380L153M016H052	0.35	0.031	0.016	3.2	3.7	22x50
15,000	380L153M016J042	0.35	0.031	0.016	3.2	3.7	25x40
15,000	380L153M016K022	0.35	0.031	0.016	3.2	3.7	30x30
15,000	380LX153M016G042	0.50	0.044	0.023	5.3	6.0	20x40
15,000	380LX153M016H032	0.50	0.044	0.023	5.3	6.0	22x35
15,000	380LX153M016J022	0.50	0.044	0.023	5.3	6.0	25x30
15,000	380LX153M016A202	0.50	0.044	0.023	3.2	3.7	35x20
18,000	380LX183M016H042	0.50	0.037	0.020	5.6	6.4	22x40
18,000	380LX183M016J022	0.50	0.037	0.020	5.6	6.4	25x30
22,000	380L223M016J052	0.35	0.021	0.011	3.6	4.1	25x50
22,000	380L223M016K042	0.35	0.021	0.011	3.6	4.1	30x40
22,000	380L223M016A022	0.35	0.021	0.011	3.6	4.1	35x30
22,000	380LX223M016H452	0.50	0.030	0.016	6.1	7.0	22x45
22,000	380LX223M016J032	0.50	0.030	0.016	6.1	7.0	25x35
22,000	380LX223M016K022	0.50	0.030	0.016	6.1	7.0	30x30
27,000	380LX273M016J452	0.50	0.025	0.013	6.3	7.3	25x45
27,000	380LX273M016K032	0.50	0.025	0.013	6.3	7.3	30x35
33,000	380L333M016K052	0.35	0.014	0.007	4.4	5.1	30x50
33,000	380L333M016A042	0.35	0.014	0.007	4.4	5.1	35x40
33,000	380LX333M016J052	0.50	0.020	0.011	6.8	7.9	25x50
33,000	380LX333M016K042	0.50	0.020	0.011	6.8	7.9	30x40
33,000	380LX333M016A022	0.50	0.020	0.011	6.8	7.9	35x30
39,000	380LX393M016K452	0.50	0.017	0.009	6.9	8.0	30x45
39,000	380LX393M016A032	0.50	0.017	0.009	6.9	8.0	35x35
47,000	380LX473M016K052	0.50	0.014	0.007	7.5	8.6	30x50
47,000	380LX473M016A042	0.50	0.014	0.007	7.5	8.6	35x40
56,000	380LX563M016A452	0.50	0.012	0.006	8.7	10.0	35x45
68,000	380LX683M016A052	0.50	0.010	0.005	9.1	10.4	35x50

25Vdc - 32 Vdc Surge

3,300	380L332M025H012	0.30	0.121	0.064	1.6	1.8	22x25
3,300	380LX332M025H202	0.40	0.161	0.085	1.6	1.8	22x20
4,700	380L472M025H022	0.30	0.085	0.045	1.8	2.1	22x30

25Vdc - 32 Vdc Surge (continued)

4,700	380L472M025J012	0.30	0.085	0.045	1.8	2.1	25x25
4,700	380LX472M025G012	0.40	0.113	0.060	3.1	3.5	20x25
4,700	380LX472M025J202	0.40	0.113	0.060	1.8	2.1	25x20
5,600	380LX562M025G022	0.40	0.095	0.050	3.4	3.9	20x30
6,800	380L682M025H042	0.30	0.059	0.031	2.3	2.6	22x40
6,800	380L682M025J022	0.30	0.059	0.031	2.3	2.6	25x30
6,800	380L682M025K012	0.30	0.059	0.031	2.3	2.6	30x25
6,800	380LX682M025G012	0.40	0.078	0.041	3.5	4.0	20x25
6,800	380LX682M025H022	0.40	0.078	0.041	3.5	4.0	22x30
6,800	380LX682M025J012	0.40	0.078	0.041	3.5	4.0	25x25
6,800	380LX682M025K202	0.40	0.078	0.041	2.3	2.6	30x20
8,200	380LX822M025G042	0.40	0.065	0.034	3.6	4.1	20x40
8,200	380LX822M025H022	0.40	0.065	0.034	3.6	4.1	22x30
8,200	380LX822M025J012	0.40	0.065	0.034	3.6	4.1	25x25
10,000	380L103M025H052	0.30	0.040	0.021	2.7	3.1	22x50
10,000	380L103M025J042	0.30	0.040	0.021	2.7	3.1	25x40
10,000	380L103M025K022	0.30	0.040	0.021	2.7	3.1	30x30
10,000	380LX103M025H032	0.40	0.053	0.028	3.8	4.3	22x35
10,000	380LX103M025J022	0.40	0.053	0.028	3.8	4.3	25x30
10,000	380LX103M025K012	0.40	0.053	0.028	3.8	4.3	30x25
10,000	380LX103M025A202	0.40	0.053	0.028	2.7	3.1	35x20
12,000	380LX123M025H042	0.40	0.044	0.023	4.1	4.7	22x40
12,000	380LX123M025J032	0.40	0.044	0.023	4.1	4.7	25x35
12,000	380LX123M025K022	0.40	0.044	0.023	4.1	4.7	30x30
15,000	380L153M025J052	0.30	0.027	0.014	3.4	3.9	25x50
15,000	380L153M025K042	0.30	0.027	0.014	3.4	3.9	30x40
15,000	380L153M025A022	0.30	0.027	0.014	3.4	3.9	35x30
15,000	380LX153M025H052	0.40	0.035	0.019	4.6	5.3	22x50
15,000	380LX153M025J042	0.40	0.035	0.019	4.6	5.3	25x40
15,000	380LX153M025K022	0.40	0.035	0.019	4.6	5.3	30x30
18,000	380LX183M025J452	0.40	0.029	0.016	5.5	6.3	25x45
18,000	380LX183M025K032	0.40	0.029	0.016	5.5	6.3	30x35
22,000	380L223M025K052	0.30	0.018	0.010	4.2	4.8	30x50
22,000	380L223M025A042	0.30	0.018	0.010	4.2	4.8	35x40
22,000	380LX223M025J052	0.40	0.024	0.013	6.1	7.0	25x50
22,000	380LX223M025K042	0.40	0.024	0.013	6.1	7.0	30x40
27,000	380LX273M025K452	0.40	0.020	0.010	6.2	7.1	30x45
27,000	380LX273M025A032	0.40	0.020	0.010	6.2	7.1	35x35
33,000	380LX333M025K052	0.40	0.016	0.009	6.8	7.9	30x50
33,000	380LX333M025A042	0.40	0.016	0.009	6.8	7.9	35x40
39,000	380LX393M025A452	0.40	0.014	0.007	7.4	8.5	35x45
47,000	380LX473M025A052	0.40	0.011	0.006	8.0	9.2	35x50

35Vdc - 44 Vdc Surge

2,200	380L222M035H012	0.25	0.151	0.080	1.4	1.6	22x25
2,200	380LX222M035H202	0.35	0.211	0.112	1.4	1.6	22x20
3,300	380L332M035H022	0.25	0.100	0.053	1.7	2.0	22x30
3,300	380L332M035J012	0.25	0.100	0.053	1.7	2.0	25x25
3,300	380LX332M035G012	0.35	0.141	0.074	2.7	3.1	20x25
3,300	380LX332M035J202	0.35	0.141	0.074	1.7	2.0	25x20

Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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35Vdc - 44 Vdc Surge (continued)

3,900	380LX392M035G022	0.35	0.119	0.063	2.9	3.4	20x30
4,700	380L472M035H042	0.25	0.071	0.037	2.0	2.3	22x40
4,700	380L472M035J022	0.25	0.071	0.037	2.0	2.3	25x30
4,700	380L472M035K012	0.25	0.071	0.037	2.0	2.3	30x25
4,700	380LX472M035G032	0.35	0.099	0.052	3.3	3.7	20x35
4,700	380LX472M035H022	0.35	0.099	0.052	3.3	3.7	22x30
4,700	380LX472M035J012	0.35	0.099	0.052	3.3	3.7	25x25
4,700	380LX472M035K202	0.35	0.099	0.052	2.0	2.3	30x20
5,600	380LX562M035G042	0.35	0.083	0.044	3.4	3.9	20x40
5,600	380LX562M035H022	0.35	0.083	0.044	3.4	3.9	22x30
5,600	380LX562M035J012	0.35	0.083	0.044	3.4	3.9	25x25
6,800	380L682M035H052	0.25	0.049	0.026	2.4	2.8	22x50
6,800	380L682M035J042	0.25	0.049	0.026	2.4	2.8	25x40
6,800	380L682M035K022	0.25	0.049	0.026	2.4	2.8	30x30
6,800	380LX682M035H032	0.35	0.068	0.036	3.7	4.2	22x35
6,800	380LX682M035J022	0.35	0.068	0.036	3.7	4.2	25x30
6,800	380LX682M035A202	0.35	0.069	0.037	2.4	2.8	35x20
8,200	380LX822M035H042	0.35	0.057	0.030	4.0	4.6	22x40
8,200	380LX822M035J032	0.35	0.057	0.030	4.0	4.6	25x35
10,000	380L103M035J052	0.25	0.033	0.018	3.0	3.5	25x50
10,000	380L103M035K042	0.25	0.033	0.018	3.0	3.5	30x40
10,000	380L103M035A022	0.25	0.033	0.018	3.0	3.5	35x30
10,000	380LX103M035H452	0.35	0.046	0.025	4.4	5.1	22x45
10,000	380LX103M035J042	0.35	0.046	0.025	4.4	5.1	25x40
10,000	380LX103M035K022	0.35	0.046	0.025	4.4	5.1	30x30
10,000	380LX103M035A012	0.35	0.046	0.025	4.4	5.1	35x25
12,000	380LX123M035J452	0.35	0.039	0.020	5.1	5.8	25x45
12,000	380LX123M035K032	0.35	0.039	0.020	5.1	5.8	30x35
12,000	380LX123M035A022	0.35	0.039	0.020	5.1	5.8	35x30
15,000	380L153M035K052	0.25	0.022	0.012	3.7	4.3	30x50
15,000	380L153M035A042	0.25	0.022	0.012	3.7	4.3	35x40
15,000	380LX153M035J052	0.35	0.031	0.016	5.6	6.4	25x50
15,000	380LX153M035K042	0.35	0.031	0.016	5.6	6.4	30x40
15,000	380LX153M035A022	0.35	0.031	0.016	5.6	6.4	35x30
18,000	380LX183M035K452	0.35	0.026	0.014	5.7	6.5	30x45
18,000	380LX183M035A032	0.35	0.026	0.014	5.7	6.5	35x35
22,000	380LX223M035K052	0.35	0.021	0.011	6.1	7.0	30x50
22,000	380LX223M035A042	0.35	0.021	0.011	6.1	7.0	35x40
27,000	380LX273M035A452	0.35	0.017	0.009	6.8	7.9	35x45
33,000	380LX333M035A052	0.35	0.014	0.008	7.2	8.2	35x50

50Vdc - 63 Vdc Surge

1,500	380L152M050H012	0.20	0.177	0.094	1.2	1.4	22x25
1,500	380LX152M050H202	0.30	0.177	0.094	1.2	1.4	22x20
2,200	380L222M050H022	0.20	0.121	0.064	1.4	1.6	22x30
2,200	380L222M050J012	0.20	0.121	0.064	1.4	1.6	25x25
2,200	380LX222M050G012	0.30	0.181	0.096	2.3	2.6	20x25
2,200	380LX222M050J202	0.30	0.181	0.096	1.4	1.6	25x20
2,700	380LX272M050G022	0.30	0.147	0.078	2.5	2.9	20x30
3,300	380L332M050H042	0.20	0.080	0.043	1.7	2.0	22x40
3,300	380L332M050J022	0.20	0.080	0.043	1.7	2.0	25x30
3,300	380L332M050K012	0.20	0.080	0.043	1.7	2.0	30x25
3,300	380LX332M050G032	0.30	0.121	0.064	2.7	3.1	20x35
3,300	380LX332M050H022	0.30	0.121	0.064	2.7	3.1	22x30
3,300	380LX332M050J012	0.30	0.121	0.064	2.7	3.1	25x25
3,300	380LX332M050K202	0.30	0.121	0.064	1.7	2.0	30x20
3,900	380LX392M050G042	0.30	0.102	0.054	2.8	3.2	20x40
3,900	380LX392M050H022	0.30	0.102	0.054	2.8	3.2	22x30
3,900	380LX392M050J012	0.30	0.102	0.054	2.8	3.2	25x25
4,700	380L472M050H052	0.20	0.056	0.030	2.1	2.4	22x50
4,700	380L472M050J042	0.20	0.056	0.030	2.1	2.4	25x40
4,700	380L472M050K022	0.20	0.056	0.030	2.4	2.4	30x30
4,700	380LX472M050H032	0.30	0.085	0.045	3.0	3.5	22x35
4,700	380LX472M050J022	0.30	0.085	0.045	3.0	3.5	25x30
4,700	380LX472M050K012	0.30	0.085	0.045	3.0	3.5	30x25

50Vdc - 63 Vdc Surge (continued)

4,700	380LX472M050A202	0.30	0.085	0.045	2.1	2.4	35x20
5,600	380LX562M050H042	0.30	0.071	0.038	3.4	3.9	22x40
5,600	380LX562M050J032	0.30	0.071	0.038	3.4	3.9	25x35
5,600	380LX562M050K022	0.30	0.071	0.038	3.4	3.9	30x30
6,800	380L682M050J052	0.20	0.039	0.021	2.6	3.0	25x50
6,800	380L682M050K042	0.20	0.039	0.021	2.6	3.0	30x40
6,800	380L682M050A022	0.20	0.039	0.021	2.6	3.0	35x30
6,800	380LX682M050H052	0.30	0.059	0.031	3.9	4.4	22x50
6,800	380LX682M050J042	0.30	0.059	0.031	3.9	4.4	25x40
6,800	380LX682M050K022	0.30	0.059	0.031	3.9	4.4	30x30
8,200	380LX822M050J452	0.30	0.049	0.026	4.4	5.1	25x45
8,200	380LX822M050K032	0.30	0.049	0.026	4.4	5.1	30x35
10,000	380L103M050K052	0.20	0.027	0.014	3.4	3.9	30x50
10,000	380L103M050A042	0.20	0.027	0.014	3.4	3.9	35x40
10,000	380LX103M050J052	0.30	0.040	0.021	5.0	5.7	25x50
10,000	380LX103M050K042	0.30	0.040	0.021	5.0	5.7	30x40
10,000	380LX103M050A022	0.30	0.040	0.021	5.0	5.7	35x30
12,000	380LX123M050K452	0.30	0.033	0.018	5.6	6.4	30x45
12,000	380LX123M050A032	0.30	0.033	0.018	5.6	6.4	35x35
15,000	380LX153M050K052	0.30	0.027	0.014	6.4	7.4	30x50
15,000	380LX153M050A042	0.30	0.027	0.014	6.4	7.4	35x40
18,000	380LX183M050A452	0.30	0.022	0.012	6.9	8.0	35x45
22,000	380LX223M050A052	0.30	0.018	0.010	7.6	8.7	35x50

63Vdc - 79 Vdc Surge

1,000	380L102M063H012	0.20	0.265	0.140	1.2	1.4	22x25
1,000	380LX102M063H202	0.25	0.332	0.176	1.2	1.4	22x20
1,500	380L152M063H022	0.20	0.177	0.094	1.3	1.5	22x30
1,500	380L152M063J012	0.20	0.177	0.094	1.3	1.5	25x25
1,500	380LX152M063J202	0.25	0.221	0.117	1.3	1.5	25x20
2,200	380L222M063H042	0.20	0.121	0.064	1.5	1.7	22x40
2,200	380L222M063J022	0.20	0.121	0.064	1.5	1.7	25x30
2,200	380L222M063K012	0.20	0.121	0.064	1.5	1.7	30x25
2,200	380LX222M063G032	0.25	0.151	0.080	2.5	2.9	20x35
2,200	380LX222M063H022	0.25	0.151	0.080	2.5	2.9	22x30
2,200	380LX222M063J012	0.25	0.151	0.080	2.5	2.9	25x25
2,200	380LX222M063K202	0.25	0.151	0.080	1.5	1.7	30x20
2,700	380LX272M063G042	0.25	0.123	0.065	3.7	4.3	20x40
2,700	380LX272M063H032	0.25	0.123	0.065	3.7	4.3	22x35
2,700	380LX272M063J022	0.25	0.123	0.065	3.7	4.3	25x30
3,300	380L332M063H052	0.20	0.080	0.043	1.9	2.2	22x50
3,300	380L332M063J042	0.20	0.080	0.043	1.9	2.2	25x40
3,300	380L332M063K022	0.20	0.080	0.043	1.9	2.2	30x30
3,300	380LX332M063K012	0.25	0.100	0.053	4.1	4.7	30x25
3,300	380LX332M063A202	0.25	0.100	0.053	1.7	2.0	35x20
3,900	380LX392M063H452	0.25	0.085	0.045	4.4	5.1	22x45
3,900	380LX392M063J032	0.25	0.085	0.045	4.4	5.1	25x35
3,900	380LX392M063K022	0.25	0.085	0.045	4.4	5.1	30x30
4,700	380L472M063J052	0.20	0.056	0.030	2.3	2.6	25x50
4,700	380L472M063K042	0.20	0.056	0.030	2.3	2.6	30x40
4,700	380LX472M063A022	0.20	0.056	0.030	2.3	2.6	35x30
4,700	380LX472M063K022	0.25	0.071	0.037	4.9	5.6	30x30
4,700	380LX472M063A012	0.25	0.071	0.037	4.9	5.6	35x25
5,600	380LX562M063J452	0.25	0.059	0.031	5.4	6.2	25x45
5,600	380LX562M063K032	0.25	0.059	0.031	5.4	6.2	30x35
5,600	380LX562M063A022	0.25	0.059	0.031	5.4	6.2	35x30
6,800	380L682M063K052	0.20	0.039	0.021	3.0	3.5	30x50
6,800	380L682M063A042	0.20	0.039	0.021	3.0	3.5	35x40
6,800	380LX682M063J052	0.25	0.049	0.026	5.8	6.7	25x50
6,800	380LX682M063K042	0.25	0.049	0.026	5.8	6.7	30x40
6,800	380LX682M063A022	0.25	0.049	0.026	5.8	6.7	35x30
8,200	380LX822M063K452	0.25	0.040	0.021	6.0	6.9	30x45
8,200	380LX822M063A032	0.25	0.040	0.021	6.0	6.9	35x35
10,000	380LX103M063A042	0.25	0.033	0.018	6.5	7.5	35x40
12,000	380LX123M063A052	0.25	0.028	0.015	7.2	8.2	35x50

Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 120Hz 20kHz	Nom. Size (mm) D x L
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Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 120Hz 20kHz	Nom. Size (mm) D x L
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80Vdc - 100 Vdc Surge

680	380L681M080H012	0.15	0.293	0.155	1.0	1.2	22x25
680	380L681M080H202	0.25	0.488	0.258	1.0	1.2	22x20
1,000	380L102M080H022	0.15	0.199	0.105	1.2	1.4	22x30
1,000	380L102M080J012	0.15	0.199	0.105	1.2	1.4	25x25
1,000	380L102M080J202	0.20	0.265	0.140	1.2	1.4	25x20
1,500	380L152M080H042	0.15	0.133	0.070	1.4	1.6	22x40
1,500	380L152M080J022	0.15	0.133	0.070	1.4	1.6	25x30
1,500	380L152M080K012	0.15	0.133	0.070	1.4	1.6	30x25
1,500	380L152M080G032	0.20	0.177	0.094	2.3	2.6	20x35
1,500	380L152M080H022	0.20	0.177	0.094	2.3	2.6	22x30
1,500	380L152M080J012	0.20	0.177	0.094	2.3	2.6	25x25
1,500	380L152M080K202	0.20	0.177	0.094	1.4	1.6	30x20
1,800	380L182M080G042	0.20	0.147	0.078	2.5	2.9	20x40
1,800	380L182M080H032	0.20	0.147	0.078	2.5	2.9	22x35
1,800	380L182M080J022	0.20	0.147	0.078	2.5	2.9	25x30
2,200	380L222M080H052	0.15	0.090	0.048	1.7	2.0	22x50
2,200	380L222M080J042	0.15	0.090	0.048	1.7	2.0	25x40
2,200	380L222M080K022	0.15	0.090	0.048	1.7	2.0	30x30
2,200	380L222M080H042	0.20	0.121	0.064	2.7	3.1	22x40
2,200	380L222M080J022	0.20	0.121	0.064	2.7	3.1	25x30
2,200	380L222M080K012	0.20	0.121	0.064	2.7	3.1	30x25
2,200	380L222M080A202	0.20	0.121	0.064	1.7	2.0	35x20
2,700	380L272M080H452	0.20	0.098	0.052	2.8	3.2	22x45
2,700	380L272M080J032	0.20	0.098	0.052	2.8	3.2	25x35
2,700	380L272M080K022	0.20	0.098	0.052	2.8	3.2	30x30
3,300	380L332M080J052	0.15	0.060	0.032	2.1	2.4	25x50
3,300	380L332M080K042	0.15	0.060	0.032	2.1	2.4	30x40
3,300	380L332M080A022	0.15	0.060	0.032	2.1	2.4	35x30
3,300	380L332M080H052	0.20	0.080	0.043	3.2	3.7	22x50
3,300	380L332M080J042	0.20	0.080	0.043	3.2	3.7	25x40
3,300	380L332M080K022	0.20	0.080	0.043	3.2	3.7	30x30
3,900	380L392M080J452	0.20	0.068	0.036	3.6	4.1	25x45
3,900	380L392M080K032	0.20	0.068	0.036	3.6	4.1	30x35
4,700	380L472M080K052	0.15	0.042	0.022	2.6	3.0	30x50
4,700	380L472M080A042	0.15	0.042	0.022	2.6	3.0	35x40
4,700	380L472M080J032	0.20	0.056	0.030	4.1	4.7	25x35
4,700	380L472M080K042	0.20	0.056	0.030	4.1	4.7	30x40
5,600	380L562M080K452	0.20	0.047	0.025	4.6	5.2	30x45
5,600	380L562M080A032	0.20	0.047	0.025	4.6	5.2	35x35
6,800	380L682M080K052	0.20	0.039	0.021	5.2	5.9	30x50
6,800	380L682M080A042	0.20	0.039	0.021	5.2	5.9	35x40
8,200	380L822M080A052	0.20	0.032	0.017	5.8	6.6	35x50

100Vdc - 125 Vdc Surge (continued)

1,500	380L152M100A202	0.20	0.177	0.094	1.5	1.7	35x20
1,800	380L182M100H452	0.20	0.147	0.078	2.8	3.3	22x45
1,800	380L182M100J032	0.20	0.147	0.078	2.8	3.3	25x35
1,800	380L182M100K022	0.20	0.147	0.078	2.8	3.3	30x30
2,200	380L222M100J052	0.15	0.090	0.048	4.3	5.0	25x50
2,200	380L222M100K042	0.15	0.090	0.048	4.4	5.0	30x40
2,200	380L222M100A022	0.15	0.090	0.048	4.3	4.9	35x30
2,200	380L222M100H052	0.20	0.121	0.064	3.1	3.6	22x50
2,200	380L222M100J042	0.20	0.121	0.064	3.1	3.6	25x40
2,200	380L222M100K022	0.20	0.121	0.064	3.1	3.6	30x30
2,700	380L272M100J452	0.20	0.098	0.052	3.7	4.3	25x45
2,700	380L272M100K032	0.20	0.098	0.052	3.7	4.3	30x35
3,300	380L332M100K052	0.15	0.060	0.032	5.9	6.8	30x50
3,300	380L332M100A042	0.15	0.060	0.032	5.9	6.7	35x40
3,300	380L332M100J052	0.20	0.080	0.043	4.1	4.7	25x50
3,300	380L332M100K042	0.20	0.080	0.043	4.1	4.7	30x40
3,900	380L392M100K452	0.20	0.068	0.036	4.5	5.2	30x45
3,900	380L392M100A032	0.20	0.068	0.036	4.5	5.2	35x35
4,700	380L472M100K052	0.20	0.056	0.030	5.1	5.9	30x50
4,700	380L472M100A042	0.20	0.056	0.030	5.1	5.9	35x40
5,600	380L562M100A452	0.20	0.047	0.025	5.8	6.6	35x45
6,800	380L682M100A052	0.20	0.039	0.021	6.6	7.6	35x50

160Vdc - 200 Vdc Surge

180	380L181M160H012	0.15	1.105	0.395	1.1	1.5	22x25
220	380L221M160H202	0.15	0.904	0.323	0.8	1.1	22x20
270	380L271M160H022	0.15	0.737	0.263	1.4	1.9	22x30
270	380L271M160J012	0.15	0.737	0.263	1.4	1.9	25x25
270	380L271M160J202	0.15	0.737	0.263	0.9	1.2	25x20
330	380L331M160G022	0.15	0.603	0.215	1.5	2.0	20x30
330	380L331M160H012	0.15	0.603	0.215	1.5	2.0	22x25
390	380L391M160H042	0.15	0.510	0.182	1.8	2.6	22x40
390	380L391M160J022	0.15	0.510	0.182	1.8	2.5	25x30
390	380L391M160K012	0.15	0.510	0.182	1.8	2.6	30x25
390	380L391M160G032	0.15	0.510	0.182	1.6	2.3	20x35
390	380L391M160H022	0.15	0.510	0.182	1.6	2.3	22x30
390	380L391M160J012	0.15	0.510	0.182	1.6	2.3	25x25
390	380L391M160K020	0.15	0.510	0.182	1.1	1.5	30x20
470	380L471M160H022	0.15	0.423	0.151	2.1	3.0	22x30
470	380L471M160J012	0.15	0.423	0.151	2.1	3.0	25x25
560	380L561M160H052	0.15	0.355	0.127	2.4	3.4	22x50
560	380L561M160J042	0.15	0.355	0.127	2.4	3.3	25x40
560	380L561M160K022	0.15	0.355	0.127	2.3	3.3	30x30
560	380L561M160H032	0.15	0.355	0.127	2.3	3.2	22x35
560	380L561M160J022	0.15	0.355	0.127	2.3	3.2	25x30
560	380L561M160K012	0.15	0.355	0.127	2.3	3.2	30x25
580	380L581M160A202	0.15	0.343	0.123	1.3	1.8	35x20
680	380L681M160H042	0.15	0.293	0.104	2.5	3.5	22x40
680	380L681M160J032	0.15	0.293	0.104	2.5	3.5	25x35
680	380L681M160K012	0.15	0.293	0.104	2.5	3.5	30x25
820	380L821M160J052	0.15	0.243	0.087	3.2	4.5	25x50
820	380L821M160K042	0.15	0.243	0.087	3.2	4.5	30x40
820	380L821M160A022	0.15	0.243	0.087	3.1	4.4	35x30
820	380L821M160H452	0.15	0.243	0.087	2.8	3.9	22x45
820	380L821M160J032	0.15	0.243	0.087	2.8	3.9	25x35
820	380L821M160K022	0.15	0.243	0.087	2.8	3.9	30x30
1,000	380L102M160J452	0.15	0.199	0.071	3.0	4.2	25x45
1,000	380L102M160K032	0.15	0.199	0.071	3.0	4.2	30x35
1,000	380L102M160A022	0.15	0.199	0.071	4.3	6.0	35x30
1,200	380L122M160K052	0.15	0.166	0.059	4.2	5.9	30x50
1,200	380L122M160A042	0.15	0.166	0.059	3.3	4.6	35x40
1,200	380L122M160J052	0.15	0.166	0.059	3.3	4.6	25x50
1,200	380L122M160K032	0.15	0.166	0.059	3.3	4.6	30x35
1,200	380L122M160A022	0.15	0.166	0.059	3.7	5.2	35x30
1,500	380L152M160K452	0.15	0.133	0.047	3.7	5.2	30x45

100Vdc - 125 Vdc Surge

470	380L471M100H012	0.15	0.423	0.224	1.6	1.9	22x25
470	380L471M100H202	0.20	0.564	0.299	1.0	1.2	22x20
680	380L681M100H022	0.15	0.293	0.155	1.8	2.1	22x30
680	380L681M100J012	0.15	0.293	0.155	1.8	2.1	25x25
680	380L681M100J202	0.20	0.390	0.206	1.1	1.3	25x20
1,000	380L102M100H042	0.15	0.199	0.105	2.5	2.8	22x40
1,000	380L102M100J022	0.15	0.199	0.105	2.3	2.7	25x30
1,000	380L102M100K012	0.15	0.199	0.105	2.4	2.8	30x25
1,000	380L102M100G032	0.20	0.265	0.140	2.0	2.3	20x35
1,000	380L102M100H022	0.20	0.265	0.140	2.0	2.3	22x30
1,000	380L102M100J012	0.20	0.265	0.140	2.0	2.3	25x25
1,000	380L102M100K202	0.20	0.265	0.140	1.2	1.4	30x20
1,200	380L122M100G042	0.20	0.221	0.117	2.3	2.7	20x40
1,200	380L122M100H032	0.20	0.221	0.117	2.3	2.7	22x35
1,200	380L122M100J022	0.20	0.221	0.117	2.3	2.7	25x30
1,500	380L152M100H052	0.15	0.133	0.070	3.3	3.8	22x50
1,500	380L152M100J042	0.15	0.133	0.070	3.2	3.7	25x40
1,500	380L152M100K022	0.15	0.133	0.070	3.2	3.7	30x30
1,500	380L152M100H042	0.20	0.177	0.094	2.6	3.0	22x40
1,500	380L152M100J022	0.20	0.177	0.094	2.6	3.0	25x30
1,500	380L152M100K012	0.20	0.177	0.094	2.6	3.0	30x25

Cap. µF	Catalog Number	DF @	ESR Ω	Ripple A	Nom. Size (mm)
		120 Hz	Max 120 Hz	±30% 20kHz	@85°C 20kHz D x L

Cap. µF	Catalog Number	DF @	ESR Ω	Ripple A	Nom. Size (mm)
		120 Hz	Max 120 Hz	±30% 20kHz	@85°C 20kHz D x L

160Vdc - 200 Vdc Surge (continued)

1,500	380LX152M160A032	0.15	0.133	0.047	4.2	5.9	35x35
1,800	380LX182M160K052	0.15	0.111	0.039	4.2	5.9	30x50
1,800	380LX182M160A042	0.15	0.111	0.039	4.2	5.9	35x40
2,200	380LX222M160A452	0.15	0.090	0.032	4.8	6.7	35x45
2,700	380LX272M160A052	0.15	0.074	0.026	5.5	7.6	35x50

180Vdc - 225 Vdc Surge

180	380L181M180H012	0.15	1.105	0.395	0.8	1.1	22x25
270	380L271M180H022	0.15	0.737	0.263	1.0	1.3	22x30
270	380L271M180J012	0.15	0.737	0.263	1.0	1.3	25x25
330	380L331M180H032	0.15	0.603	0.215	1.0	1.4	22x35
330	380L331M180J022	0.15	0.603	0.215	1.0	1.4	25x30
330	380LX331M180G022	0.15	0.603	0.215	1.8	2.5	20x30
330	380LX331M180H012	0.15	0.603	0.215	1.8	2.5	22x25
390	380L391M180H042	0.15	0.510	0.182	1.2	1.6	22x40
390	380L391M180J032	0.15	0.510	0.182	1.2	1.6	25x35
390	380L391M180K012	0.15	0.510	0.182	1.2	1.6	30x25
390	380LX391M180G032	0.15	0.510	0.182	1.2	1.6	20x35
390	380LX391M180H022	0.15	0.510	0.182	1.2	1.6	22x30
390	380LX391M180J012	0.15	0.510	0.182	1.2	1.6	25x25
470	380LX471M180G042	0.15	0.423	0.151	2.1	2.9	20x40
470	380LX471M180H032	0.15	0.423	0.151	2.1	2.9	22x35
470	380LX471M180J012	0.15	0.423	0.151	2.1	2.9	25x25
560	380L561M180H052	0.15	0.355	0.127	1.4	1.9	22x50
560	380L561M180J042	0.15	0.355	0.127	1.4	1.9	25x40
560	380L561M180K022	0.15	0.355	0.127	1.4	1.9	30x30
560	380L561M180A012	0.15	0.355	0.127	1.4	1.9	35x25
560	380LX561M180H032	0.15	0.355	0.127	2.3	3.2	22x35
560	380LX561M180J022	0.15	0.355	0.127	2.3	3.2	25x30
680	380L681M180H042	0.15	0.293	0.104	2.5	3.5	22x40
680	380L681M180J032	0.15	0.293	0.104	2.5	3.5	25x35
680	380L681M180K022	0.15	0.293	0.104	2.5	3.5	30x30
820	380L821M180J052	0.15	0.243	0.087	1.6	2.2	25x50
820	380L821M180K042	0.15	0.243	0.087	1.6	2.2	30x40
820	380L821M180A022	0.15	0.243	0.087	1.6	2.2	35x30
820	380LX821M180J452	0.15	0.243	0.087	2.8	3.9	22x45
820	380LX821M180J042	0.15	0.243	0.087	2.8	3.9	25x40
820	380LX821M180K022	0.15	0.243	0.087	2.8	3.9	30x30
1,000	380LX102M180J452	0.15	0.199	0.071	3.0	4.2	25x45
1,000	380LX102M180K032	0.15	0.199	0.071	3.0	4.2	30x35
1,200	380L122M180K052	0.15	0.166	0.059	2.0	2.8	30x50
1,200	380L122M180K052	0.15	0.166	0.059	2.0	2.8	35x40
1,200	380LX122M180J052	0.15	0.166	0.059	3.3	4.6	25x50
1,200	380LX122M180K042	0.15	0.166	0.059	3.3	4.6	30x40
1,200	380LX122M180A032	0.15	0.166	0.059	3.3	4.6	35x35
1,500	380LX152M180K452	0.15	0.133	0.047	3.8	5.4	30x45
1,500	380LX152M180A042	0.15	0.133	0.047	3.8	5.4	35x40
1,800	380LX182M180K052	0.15	0.111	0.039	4.3	6.0	30x50
1,800	380LX182M180A042	0.15	0.111	0.039	4.3	6.0	35x40
2,200	380LX222M180A052	0.15	0.090	0.032	4.9	6.9	35x50

200Vdc - 250 Vdc Surge

150	380L151M200H012	0.15	1.33	0.474	1.0	1.5	22x25
150	380LX151M200H022	0.15	1.33	0.474	0.7	0.9	22x20
220	380L221M200H012	0.15	0.904	0.323	1.1	1.6	22x25
220	380L221M200H022	0.15	0.904	0.323	1.2	1.7	22x30
220	380L221M200J012	0.15	0.904	0.323	1.2	1.7	25x25
220	380LX221M200J022	0.15	0.904	0.323	0.9	1.2	25x20
270	380LX271M200G022	0.15	0.737	0.263	1.4	2.0	20x30
270	380LX271M200H012	0.15	0.737	0.263	1.4	2.0	22x25
330	380L331M200H042	0.15	0.603	0.215	1.7	2.4	22x40
330	380L331M200J022	0.15	0.603	0.215	1.6	2.3	25x30
330	380L331M200K012	0.15	0.603	0.215	1.7	2.4	30x25
330	380LX331M200G032	0.15	0.603	0.215	1.6	2.2	20x35

200Vdc - 250 Vdc Surge (continued)

330	380LX331M200H022	0.15	0.603	0.215	1.6	2.2	22x30
330	380LX331M200J012	0.15	0.603	0.215	1.6	2.2	25x25
330	380LX331M200K022	0.15	0.603	0.215	1.0	1.4	30x20
390	380LX391M200H022	0.15	0.510	0.182	1.7	2.4	22x30
390	380LX391M200J012	0.15	0.510	0.182	1.7	2.4	25x25
470	380L471M200H052	0.15	0.423	0.151	2.3	3.2	22x50
470	380L471M200J042	0.15	0.423	0.151	2.2	3.1	25x40
470	380L471M200K022	0.15	0.423	0.151	2.2	3.0	30x30
470	380LX471M200H032	0.15	0.423	0.151	1.9	2.6	22x35
470	380LX471M200J022	0.15	0.423	0.151	1.9	2.6	25x30
470	380LX471M200K012	0.15	0.423	0.151	1.9	2.6	30x25
470	380LX471M200A202	0.15	0.423	0.151	1.3	1.8	35x20
560	380LX561M200H042	0.15	0.355	0.127	2.4	3.4	22x40
560	380LX561M200J032	0.15	0.355	0.127	2.4	3.4	25x35
560	380LX561M200K012	0.15	0.355	0.127	2.4	3.4	30x25
680	380L681M200J052	0.15	0.293	0.104	2.9	4.1	25x50
680	380L681M200K042	0.15	0.293	0.104	2.9	4.1	30x40
680	380L681M200A022	0.15	0.293	0.104	2.9	4.0	35x30
680	380LX681M200H452	0.15	0.293	0.104	2.7	3.8	22x45
680	380LX681M200J032	0.15	0.293	0.104	2.7	3.8	25x35
680	380LX681M200K022	0.15	0.293	0.104	2.7	3.8	30x30
820	380LX821M200J452	0.15	0.243	0.087	2.9	4.1	25x45
820	380LX821M200K032	0.15	0.243	0.087	2.9	4.1	30x35
820	380LX821M200A012	0.15	0.243	0.087	2.9	4.1	35x25
1,000	380L102M200K052	0.15	0.199	0.071	3.9	5.5	30x50
1,000	380L102M200A042	0.15	0.199	0.071	3.9	5.4	35x40
1,000	380LX102M200J052	0.15	0.199	0.071	3.3	4.6	25x50
1,000	380LX102M200K042	0.15	0.199	0.071	3.3	4.6	30x40
1,000	380LX102M200A022	0.15	0.199	0.071	3.3	4.6	35x30
1,200	380L122M200A052	0.15	0.166	0.059	4.7	6.5	35x50
1,200	380LX122M200K452	0.15	0.166	0.059	3.5	4.9	30x45
1,200	380LX122M200A032	0.15	0.166	0.059	3.5	4.9	35x35
1,500	380LX152M200K052	0.15	0.133	0.047	3.9	5.4	30x50
1,500	380LX152M200A042	0.15	0.133	0.047	3.9	5.4	35x40
1,800	380LX182M200A452	0.15	0.111	0.039	4.3	6.0	35x45
2,200	380LX222M200A052	0.15	0.090	0.032	4.9	6.9	35x50

250Vdc - 300 Vdc Surge

120	380L121M250H012	0.15	1.66	0.592	0.6	0.9	22x25
120	380LX121M250H022	0.15	1.66	0.592	0.5	0.6	22x20
150	380L151M250H022	0.15	1.33	0.474	0.9	1.2	22x30
150	380L151M250J012	0.15	1.33	0.474	0.9	1.2	25x25
150	380LX151M250J022	0.15	1.33	0.474	0.7	0.9	25x20
180	380LX181M250G022	0.15	1.11	0.395	1.1	1.5	20x30
180	380LX181M250H012	0.15	1.11	0.395	1.1	1.5	22x25
220	380L221M250H042	0.15	0.904	0.323	1.0	1.4	22x40
220	380L221M250J022	0.15	0.904	0.323	1.0	1.4	25x30
220	380L221M250K012	0.15	0.904	0.323	1.0	1.4	30x25
220	380LX221M250G032	0.15	0.904	0.323	1.2	1.6	20x35
220	380LX221M250H022	0.15	0.904	0.323	1.2	1.6	22x30
220	380LX221M250J012	0.15	0.904	0.323	1.2	1.6	25x25
220	380LX221M250J022	0.15	0.904	0.323	0.7	0.9	25x20
220	380LX221M250K022	0.15	0.737	0.263	0.9	1.2	30x20
270	380LX271M250H022	0.15	0.737	0.263	1.3	1.8	22x30
270	380LX271M250J012	0.15	0.737	0.263	1.3	1.8	25x25
330	380L331M250H052	0.15	0.603	0.215	1.4	1.9	22x50
330	380L331M250J042	0.15	0.603	0.215	1.3	1.9	25x40
330	380L331M250K022	0.15	0.603	0.215	1.3	1.9	30x30
330	380LX331M250H032	0.15	0.603	0.215	1.8	2.5	22x35
330	380LX331M250J022	0.15	0.603	0.215	1.8	2.5	25x30
330	380LX331M250K012	0.15	0.603	0.215	1.8	2.5	30x25
330	380LX331M250A202	0.15	0.603	0.215	1.1	1.5	35x20
390	380LX391M250H042	0.15	0.510	0.182	1.9	2.7	22x40
390	380LX391M250J032	0.15	0.510	0.182	1.9	2.7	25x35
390	380LX391M250K012	0.15	0.510	0.182	1.9	2.7	30x25

Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 20kHz	Nom. Size (mm) D x L
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250Vdc - 300 Vdc Surge (continued)

470	380L471M250J052	0.15	0.423	0.151	1.8	2.5	25x50
470	380L471M250K042	0.15	0.423	0.151	1.8	2.5	30x40
470	380L471M250A022	0.15	0.423	0.151	1.7	2.4	35x30
470	380L471M250H452	0.15	0.423	0.151	2.1	3.0	22x45
470	380L471M250J042	0.15	0.423	0.151	2.1	3.0	25x40
470	380L471M250K022	0.15	0.423	0.151	2.1	3.0	30x30
560	380L561M250J452	0.15	0.355	0.127	2.3	3.2	25x45
560	380L561M250K032	0.15	0.355	0.127	2.3	3.2	30x35
560	380L561M250A012	0.15	0.355	0.127	2.3	3.2	35x25
680	380L681M250K052	0.15	0.293	0.104	2.4	3.3	30x50
680	380L681M250A042	0.15	0.293	0.104	2.3	3.3	35x40
680	380L681M250J052	0.15	0.293	0.104	2.5	3.5	25x50
680	380L681M250K042	0.15	0.293	0.104	2.5	3.5	30x40
680	380L681M250A022	0.15	0.293	0.104	2.5	3.5	35x30
820	380L821M250K452	0.15	0.243	0.087	2.8	3.9	30x45
820	380L821M250A032	0.15	0.243	0.087	2.8	3.9	35x35
1,000	380L102M250A052	0.15	0.199	0.071	3.1	4.4	35x50
1,000	380L102M250K052	0.15	0.199	0.071	3.3	4.6	30x50
1,000	380L102M250A042	0.15	0.199	0.071	3.3	4.6	35x40
1,200	380L122M250A452	0.15	0.166	0.059	3.5	4.9	35x45
1,500	380L152M250A052	0.15	0.133	0.047	4.0	5.7	35x50

315Vdc - 365 Vdc Surge

100	380L101M315G022	0.15	1.99	0.711	0.9	1.3	20X30
100	380L101M315H012	0.15	1.99	0.711	0.9	1.3	22X25
120	380L121M315G042	0.15	1.66	0.592	1.0	1.4	20X40
120	380L121M315H022	0.15	1.66	0.592	1.0	1.4	22X30
120	380L121M315J012	0.15	1.66	0.592	1.0	1.4	25X25
150	380L151M315G022	0.15	1.33	0.474	1.1	1.6	22X30
150	380L151M315J012	0.15	1.33	0.474	1.1	1.6	25X25
180	380L181M315H032	0.15	1.11	0.395	1.2	1.7	22X35
180	380L181M315J022	0.15	1.11	0.395	1.2	1.7	25X30
180	380L181M315K012	0.15	1.11	0.395	1.2	1.7	30X25
220	380L221M315H042	0.15	0.904	0.323	1.4	2.0	22X40
220	380L221M315J032	0.15	0.904	0.323	1.4	2.0	25X35
220	380L221M315K012	0.15	0.904	0.323	1.4	2.0	30X25
270	380L271M315H452	0.15	0.737	0.263	1.6	2.2	22X45
270	380L271M315J042	0.15	0.737	0.263	1.6	2.2	25X40
270	380L271M315K022	0.15	0.737	0.263	1.6	2.2	30X30
330	380L331M315J452	0.15	0.603	0.215	1.8	2.5	25X45
330	380L331M315K022	0.15	0.603	0.215	1.8	2.5	30X35
330	380L331M315A012	0.15	0.603	0.215	1.8	2.5	35X25
390	380L391M315J052	0.15	0.510	0.182	2.0	2.8	25X50
390	380L391M315K022	0.15	0.510	0.182	2.0	2.8	30X25
390	380L391M315A022	0.15	0.510	0.182	2.0	2.8	35X30
470	380L471M315K042	0.15	0.423	0.151	2.3	3.2	30X40
470	380L471M315A032	0.15	0.423	0.151	2.3	3.2	35X35
560	380L561M315K452	0.15	0.355	0.127	2.6	3.6	30X45
560	380L561M315A032	0.15	0.355	0.127	2.6	3.6	35X35
680	380L681M315A452	0.15	0.293	0.104	2.9	4.0	35X45
820	380L821M315A052	0.15	0.243	0.087	3.3	4.6	35X50

350Vdc - 400 Vdc Surge

56	380L560M350H012	0.15	3.55	1.27	0.3	0.4	22X25
68	380L680M350H012	0.15	2.93	1.05	0.3	0.4	22X25
82	380L820M350H022	0.15	2.43	0.866	0.4	0.5	22X30
82	380L820M350J012	0.15	2.43	0.866	0.4	0.5	25X25
82	380L820M350G022	0.15	2.43	0.866	0.8	1.2	20X30
82	380L820M350H012	0.15	2.43	0.866	0.8	1.2	22X25
100	380L101M350H022	0.15	1.99	0.711	0.4	0.5	22X30
100	380L101M350G032	0.15	1.99	0.711	0.9	1.3	20X35
100	380L101M350H022	0.15	1.99	0.711	0.9	1.3	22X30
120	380L121M350H032	0.15	1.66	0.592	0.5	0.7	22X35
120	380L121M350J022	0.15	1.66	0.592	0.5	0.7	25X30

350Vdc - 400 Vdc Surge (continued)

120	380L121M350K012	0.15	1.66	0.592	0.5	0.7	30X25
120	380L121M350H022	0.15	1.66	0.592	1.0	1.4	22X30
120	380L121M350J012	0.15	1.66	0.592	1.0	1.4	25X25
150	380L151M350H042	0.15	1.33	0.474	0.5	0.7	22X40
150	380L151M350J012	0.15	1.33	0.474	0.5	0.7	25X35
150	380L151M350K012	0.15	1.33	0.474	0.5	0.7	30X25
150	380L151M350H032	0.15	1.33	0.474	1.1	1.6	22X35
150	380L151M350J022	0.15	1.33	0.474	1.1	1.6	25X30
150	380L151M350K012	0.15	1.33	0.474	1.1	1.6	30X25
180	380L181M350J042	0.15	1.11	0.395	0.6	0.8	25X40
180	380L181M350K022	0.15	1.11	0.395	0.6	0.8	30X30
180	380L181M350H042	0.15	1.11	0.395	1.2	1.7	22X40
180	380L181M350J032	0.15	1.11	0.395	1.2	1.7	25X35
180	380L181M350K022	0.15	1.11	0.395	1.2	1.7	30X25
220	380L221M350H052	0.15	0.904	0.323	0.7	0.9	22X50
220	380L221M350J052	0.15	0.904	0.323	0.7	0.9	25X50
220	380L221M350K032	0.15	0.904	0.323	0.7	0.9	30X35
220	380L221M350A012	0.15	0.904	0.323	0.7	0.9	35X25
220	380L221M350H452	0.15	0.904	0.323	1.4	2.0	22X45
220	380L221M350J042	0.15	0.904	0.323	1.4	2.0	25X40
220	380L221M350K022	0.15	0.904	0.323	1.4	2.0	30X30
220	380L221M350A012	0.15	0.904	0.323	1.4	2.0	35X25
270	380L271M350J052	0.15	0.737	0.263	0.8	1.1	25X50
270	380L271M350K042	0.15	0.737	0.263	0.8	1.1	30X40
270	380L271M350A022	0.15	0.737	0.263	0.8	1.1	35X30
270	380L271M350J452	0.15	0.737	0.263	1.7	2.3	25X45
270	380L271M350K032	0.15	0.737	0.263	1.7	2.3	30X35
270	380L271M350A022	0.15	0.737	0.263	1.7	2.3	35X30
330	380L331M350K052	0.15	0.603	0.215	0.8	1.1	30X50
330	380L331M350A032	0.15	0.603	0.215	0.8	1.1	35X35
330	380L331M350J052	0.15	0.603	0.215	1.9	2.6	25X50
330	380L331M350K042	0.15	0.603	0.215	1.9	2.6	30X40
330	380L331M350A022	0.15	0.603	0.215	1.9	2.6	35X30
390	380L391M350K052	0.15	0.510	0.182	0.9	1.2	30X50
390	380L391M350A042	0.15	0.510	0.182	0.9	1.2	35X40
390	380L391M350K452	0.15	0.510	0.182	2.1	2.9	30X45
390	380L391M350A032	0.15	0.510	0.182	2.1	2.9	35X35
470	380L471M350K052	0.15	0.423	0.151	2.4	3.4	30X50
470	380L471M350A042	0.15	0.423	0.151	2.4	3.4	35X40
560	380L561M350A452	0.15	0.355	0.127	2.6	3.6	35X45
680	380L681M350A052	0.15	0.293	0.104	3.0	4.1	35X50

400Vdc - 450 Vdc Surge

47	380L470M400H012	0.15	4.23	1.512	0.5	0.8	22x25
47	380L470M400H202	0.15	4.23	1.512	0.3	0.4	22x20
68	380L680M400H022	0.15	2.93	1.045	0.7	1.0	22x30
68	380L680M400J012	0.15	2.93	1.045	0.7	1.0	25x25
68	380L680M400G022	0.15	2.93	1.045	0.8	1.1	20x30
68	380L680M400H012	0.15	2.93	1.045	0.8	1.1	22x25
68	380L680M400J202	0.15	2.93	1.045	0.4	0.5	25x20
82	380L820M400G022	0.15	2.43	0.866	0.8	1.2	20x30
82	380L820M400H012	0.15	2.43	0.866	0.8	1.2	22x25
100	380L101M400H042	0.15	1.99	0.711	1.0	1.3	22x40
100	380L101M400J022	0.15	1.99	0.711	0.9	1.3	25x30
100	380L101M400K012	0.15	1.99	0.711	0.9	1.3	30x25
100	380L101M400G032	0.15	1.99	0.711	0.9	1.3	20x35
100	380L101M400H022	0.15	1.99	0.711	0.9	1.3	22x30
100	380L101M400J012	0.15	1.99	0.711	0.9	1.3	25x25
100	380L101M400K202	0.15	1.99	0.711	0.5	0.7	30x20
120	380L121M400G042	0.15	1.66	0.592	1.0	1.4	20x40
120	380L121M400H032	0.15	1.66	0.592	1.0	1.4	22x35
120	380L121M400J022	0.15	1.66	0.592	1.0	1.4	25x30
150	380L151M400H052	0.15	1.33	0.474	1.3	1.8	22x50
150	380L151M400K022	0.15	1.33	0.474	1.2	1.7	30x30
150	380L151M400J042	0.15	1.33	0.474	1.3	1.8	25x40

Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 120Hz 20kHz	Nom. Size (mm) D x L
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Cap. μF	Catalog Number	DF @ 120 Hz	ESR Ω Max ±30% 120 Hz 20kHz	Ripple A @85°C 120Hz 20kHz	Nom. Size (mm) D x L
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400Vdc - 450 Vdc Surge

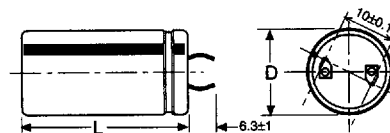
150	380LX151M400H042	0.15	1.33	0.474	1.2	1.6	22x40
150	380LX151M400J022	0.15	1.33	0.474	1.2	1.6	25x30
150	380LX151M400K012	0.15	1.33	0.474	1.2	1.6	30x25
150	380LX151M400A202	0.15	1.33	0.474	0.6	0.8	35x20
180	380LX181M400H452	0.15	1.11	0.395	1.4	2.0	22x45
180	380LX181M400J032	0.15	1.11	0.395	1.4	2.0	25x35
180	380LX181M400K022	0.15	1.11	0.395	1.4	2.0	30x30
220	380L221M400J052	0.15	0.904	0.323	1.7	2.3	25x50
220	380L221M400K042	0.15	0.904	0.323	1.7	2.4	30x40
220	380L221M400A022	0.15	0.904	0.323	1.6	2.3	35x30
220	380LX221M400H052	0.15	0.904	0.323	1.5	2.1	22x50
220	380LX221M400J042	0.15	0.904	0.323	1.5	2.1	25x40
220	380LX221M400K022	0.15	0.904	0.323	1.5	2.1	30x30
270	380L271M400K052	0.15	0.737	0.263	2.1	2.9	30x50
270	380L271M400A042	0.15	0.737	0.263	2.0	2.9	35x40
270	380LX271M400J452	0.15	0.737	0.263	1.7	2.3	25x45
270	380LX271M400K032	0.15	0.737	0.263	1.7	2.3	30x35
270	380LX271M400A022	0.15	0.737	0.263	1.7	2.3	35x30
330	380LX331M400K042	0.15	0.603	0.215	1.9	2.7	30x40
330	380LX331M400A032	0.15	0.603	0.215	1.9	2.7	35x35
390	380L391M400A052	0.15	0.510	0.182	2.7	3.8	35x50
390	380LX391M400K452	0.15	0.510	0.182	2.1	3.0	30x45
390	380LX391M400A042	0.15	0.510	0.182	2.1	3.0	35x40
470	380LX471M400A452	0.15	0.423	0.151	2.4	3.3	35x45
560	380LX561M400A052	0.15	0.355	0.127	2.7	3.8	35x50

450Vdc - 500 Vdc Surge

33	380L330M450H012	0.15	6.03	2.153	0.5	0.7	22x25
33	380LX330M450H022	0.15	6.03	2.153	0.2	0.3	22x20
47	380L470M450H022	0.15	4.23	1.512	0.6	0.8	22x30
47	380L470M450J012	0.15	4.23	1.512	0.6	0.8	25x25
47	380LX470M450J022	0.15	4.23	1.512	0.3	0.4	25x20
56	380LX560M450H012	0.15	3.55	1.269	0.7	1.0	22x25
56	380LX560M450G022	0.15	3.55	1.269	0.7	1.0	20x30
68	380L680M450H042	0.15	2.93	1.045	0.8	1.1	22x40
68	380L680M450J022	0.15	2.93	1.045	0.8	1.1	25x30
68	380L680M450K012	0.15	2.93	1.045	0.8	1.1	30x25
68	380LX680M450G032	0.15	2.93	1.045	0.8	1.1	20x35
68	380LX680M450H022	0.15	2.93	1.045	0.8	1.1	22x30
68	380LX680M450K202	0.15	2.93	1.045	0.4	0.5	30x20
82	380LX820M450G032	0.15	2.43	0.866	0.8	1.2	20x35
82	380LX820M450H022	0.15	2.43	0.866	0.8	1.2	22x30
82	380LX820M450J012	0.15	2.43	0.866	0.8	1.2	25x25
100	380L101M450H052	0.15	1.99	0.711	1.1	1.5	22x50
100	380L101M450J042	0.15	1.99	0.711	1.0	1.4	25x40
100	380L101M450K022	0.15	1.99	0.711	1.0	1.4	30x30
100	380LX101M450H032	0.15	1.99	0.711	0.9	1.3	22x35
100	380LX101M450J022	0.15	1.99	0.711	0.9	1.3	25x30
100	380LX101M450K012	0.15	1.99	0.711	0.9	1.3	30x25
100	380LX101M450A202	0.15	1.99	0.711	0.5	0.7	35x20
120	380LX121M450H042	0.15	1.66	0.592	1.0	1.5	22x40
120	380LX121M450J022	0.15	1.66	0.592	1.0	1.5	25x30
120	380LX121M450K012	0.15	1.66	0.592	1.0	1.5	30x25
150	380L151M450J052	0.15	1.33	0.474	1.4	1.9	25x50
150	380L151M450K042	0.15	1.33	0.474	1.4	2.0	30x40
150	380L151M450A022	0.15	1.33	0.474	1.4	1.9	35x30
150	380LX151M450H052	0.15	1.33	0.474	1.2	1.7	22x50
150	380LX151M450J042	0.15	1.33	0.474	1.2	1.7	25x40
150	380LX151M450K022	0.15	1.33	0.474	1.2	1.7	30x30
180	380LX181M450J452	0.15	1.11	0.395	1.4	1.9	25x45
180	380LX181M450K032	0.15	1.11	0.395	1.4	1.9	30x35
180	380LX181M450A012	0.15	1.11	0.395	1.4	1.9	35x25
220	380L221M450K052	0.15	0.904	0.323	1.9	2.6	30x50
220	380L221M450A042	0.15	0.904	0.323	1.9	2.6	35x40
220	380LX221M450J052	0.15	0.904	0.323	1.6	2.2	25x50

450Vdc - 500 Vdc Surge (continued)

220	380LX221M450K042	0.15	0.904	0.323	1.6	2.2	30x40
220	380LX221M450A022	0.15	0.904	0.323	1.6	2.2	35x30
270	380LX271M450K452	0.15	0.737	0.263	1.8	2.5	30x45
270	380LX271M450A032	0.15	0.737	0.263	1.8	2.5	35x35
330	380L331M450A052	0.15	0.603	0.215	2.5	3.5	35x50
330	380LX331M450K052	0.15	0.603	0.215	2.0	2.8	30x50
330	380LX331M450A042	0.15	0.603	0.215	2.0	2.8	35x40
390	380LX391M450A452	0.15	0.510	0.182	2.2	3.1	35x45
470	380LX471M450A052	0.15	0.423	0.151	2.5	3.5	35x50



Insulated-Case Dimensions

Case Code	Diam. mm	in.	Length mm	in.	Case Code	Diam. mm	in.	Length mm	in.
G01	20	0.79	25	0.98	K20	30	1.18	20	0.79
G02	20	0.79	30	1.18	K01	30	1.19	25	0.98
G03	20	0.79	35	1.38	K02	30	1.18	30	1.18
G04	20	0.79	40	1.57	K03	30	1.18	35	1.38
H20	22	0.87	20	0.79	K04	30	1.18	40	1.57
H01	22	0.87	25	0.98	K45	30	1.18	45	1.77
H02	22	0.87	30	1.18	K05	30	1.18	50	1.97
H03	22	0.87	35	1.38					
H04	22	0.87	40	1.57	A20	35	1.38	20	0.79
H45	22	0.87	45	1.77	A01	35	1.38	25	0.98
H05	22	0.87	50	1.97	A02	35	1.38	30	1.18
J20	25	0.98	20	0.79	A03	35	1.38	35	1.38
J01	25	0.98	25	0.98	A04	35	1.38	40	1.57
J02	25	0.98	30	1.18	A45	35	1.38	45	1.77
J03	25	0.98	35	1.38	A05	35	1.38	50	1.97
J04	25	0.98	40	1.57					
J45	25	0.98	45	1.77					
J05	25	0.98	50	1.97					

Ordering Information for Types 380L & 380LX

380LX 123 M 016 H02 2

Type: 380L or 380LX-----|

Capacitance: 100 = 10μF; 101 = 100μF-----|

102 = 1000μF; 123 = 12,000μF

Tolerance: M = ±20%-----|

Voltage: 016 = 16Vdc; 100 = 100Vdc-----|

Case Code: See table-----|

Insulation: 0 = None; 2 = PVC-----|

Typical Life Performance Curves

Capacitance Change (%), Dissipation Factor (%) and Leakage Current (DCL)

