

Rugged, Long Life Snapmounts; 380 - Standard, 380X max. μF
 Type 380 capacitors snapmount in PC boards and have strong welded leads that eliminate the need for any other mounting hardware. The leads easily withstand a 70 pound pull. These capacitors are an excellent choice for switching power supply input and output filters. Their low ESRs allow very high ripple currents. Type 380X is maximum capacitance.

Capacitance: 43 to 180,000 μF
Voltage: 6.3 to 500Vdc
Operating Temperature: -40°C to +85°C
Life Test: 5,000 hours @ +85°C
Ripple Test: 2,500 hours at full load @ +85°C
Shelf Test: 500 hours @ +85°C
DCL: $\leq 3\sqrt{CV} \mu\text{A}$

Cap. μF	Catalog Number	ESR m Ω Max $\pm 30\%$ 120 Hz 10kHz	Ripple A @85°C 120Hz 10kHz	Nominal Size (mm) D x L
--------------------	----------------	--	----------------------------------	----------------------------

Cap. μF	Catalog Number	ESR m Ω Max $\pm 30\%$ 120 Hz 10kHz	Ripple A @85°C 120Hz 10kHz	Nominal Size (mm) D x L
--------------------	----------------	--	----------------------------------	----------------------------

6.3Vdc - 8Vdc Surge

7.5Vdc - 9Vdc Surge (continued)

12,000	380X123M6R3H012	106	50	2.0	2.2	22 x 25
15,000	380153M6R3H022	82	39	2.4	2.7	22 x 30
16,000	380X163M6R3H022	77	37	2.5	2.8	22 x 30
15,000	380153M6R3JO22	99	50	2.2	2.4	25 x 25
16,000	380X163M6R3JO22	93	47	2.3	2.5	25 x 25
18,000	380183M6R3H032	68	32	2.8	3.1	22 x 35
20,000	380X203M6R3H032	61	29	2.9	3.3	22 x 35
22,000	380X223M6R3JO22	66	34	2.9	3.1	25 x 30
22,000	380223M0R3H042	57	27	3.2	3.6	22 x 40
25,000	380X253M6R3H042	50	24	3.4	3.8	22 x 40
22,000	380223M6R3K012	61	28	3.5	4.0	30 x 25
26,000	380X263M6R3K012	52	24	3.8	4.3	30 x 25
27,000	380X273M6R3JO32	54	28	3.3	3.6	25 x 35
28,000	380X283M6R3JO32	52	27	3.4	3.7	25 x 35
33,000	380X333M6R3A012	46	23	3.5	4.3	35 x 25
33,000	380333M6R3JO42	44	23	3.9	4.2	25 x 40
34,000	380X343M6R3JO42	43	22	4.0	4.3	25 x 40
33,000	380333M6R3H052	38	18	3.7	4.2	22 x 50
35,000	380X353M6R3H052	36	17	3.8	4.3	22 x 50
33,000	380333M6R3K022	40	19	4.6	5.1	30 x 30
35,000	380X353M6R3K022	38	18	4.7	5.3	30 x 30
39,000	380393M6R3K032	34	16	5.3	5.8	30 x 35
44,000	380X443M6R3K032	30	14	5.6	6.2	30 x 35
39,000	380393M6R3A022	40	20	5.1	5.7	35 x 30
45,000	380X453M6R3A022	35	17	5.5	6.1	35 x 30
47,000	380473M6R3JO52	32	17	4.9	5.4	25 x 50
49,000	380X493M6R3JO52	31	16	5.0	5.5	25 x 50
47,000	380473M6R3K042	29	14	6.0	6.6	30 x 40
54,000	380X543M6R3K042	25	12	6.4	7.1	30 x 40
56,000	380563M6R3A032	29	14	6.1	6.7	35 x 35
57,000	380X573M6R3A032	28	14	6.2	6.8	35 x 35
68,000	380683M6R3A042	24	11	6.7	7.3	35 x 40
70,000	380X703M6R3A042	23	11	6.8	7.4	35 x 40
68,000	380683M6R3K052	20	9	7.2	7.9	30 x 50
76,000	380X763M6R3K052	18	8	7.6	8.3	30 x 50
82,000	380823M6R3A052	19	10	7.3	7.8	35 x 50
99,000	380X993M6R3A052	16	8	8.0	8.6	35 x 50
100,000	380104M6R3A062	16	8	8.2	8.8	35 x 60
120,000	380X124M6R3A062	13	7	9.0	9.6	35 x 60
150,000	380X154M6R3A072	11	6	9.7	10.3	35 x 70
180,000	380X184M6R3A082	10	5	10.3	10.8	35 x 70

22,000	380223M7R5H042	54	26	3.3	3.7	22 x 40
23,000	380X233M7R5H042	52	25	3.4	3.8	22 x 40
24,000	380X243M7R5K012	53	24	3.8	4.3	30 x 25
26,000	380X263M7R5JO32	53	27	3.4	3.7	25 x 35
27,000	380273M7R5A012	52	27	3.3	4.1	35 x 25
30,000	380X303M7R5A012	47	24	3.5	4.3	35 x 25
32,000	380X323M7R5H052	37	18	3.8	4.3	22 x 50
32,000	380X323M7R5JO42	44	22	4.0	4.3	25 x 40
32,000	380X323M7R5K022	39	18	4.7	5.3	30 x 30
33,000	380333M7R5K032	39	17	4.9	5.6	30 x 35
39,000	380393M7R5K032	33	15	5.4	6.0	30 x 35
41,000	380X413M7R5K032	31	14	5.5	6.2	30 x 35
41,000	380X413M7R5A022	36	18	5.5	6.1	35 x 30
45,000	380X453M7R5JO52	32	16	5.0	5.5	25 x 50
47,000	380473M7R5K042	28	13	6.2	6.9	30 x 40
50,000	380X503M7R5K042	26	12	6.4	7.1	30 x 40
53,000	380X533M7R5A032	28	14	6.2	6.8	35 x 35
56,000	380563M7R5A042	26	13	6.4	6.9	35 x 40
64,000	380X643M7R5A042	23	11	6.8	7.4	35 x 40
68,000	380683M7R5K052	20	8	7.4	8.2	30 x 50
70,000	380X703M7R5K052	19	8	7.5	8.3	30 x 50
82,000	380823M7R5A052	19	9	7.5	8.2	35 x 50
91,000	380X913M7R5A052	17	8	7.9	8.6	35 x 50
100,000	380104M7R5A062	15	8	8.5	9.1	35 x 60
110,000	380X114M7R5A062	14	7	8.9	9.5	35 x 60
120,000	380124M7R5A072	14	7	9.0	9.5	35 x 70
140,000	380X144M7R5A072	12	6	9.7	10.3	35 x 70
150,000	380154M7R5A082	11	5	10.0	10.5	35 x 80
160,000	380X164M7R5A082	10	5	10.3	10.8	35 x 80

10Vdc - 12Vdc Surge

7.5Vdc - 9Vdc Surge

10,000	380103M7R5H012	119	56	1.9	2.1	22 x 25
11,000	380X113M7R5H012	108	51	2.0	2.2	22 x 25
12,000	380123M7R5H022	99	46	2.2	2.5	22 x 30
15,000	380X153M7R5H022	79	37	2.5	2.8	22 x 30
15,000	380X153M7R5JO12	95	48	2.3	2.5	25 x 25
18,000	380183M7R5H032	67	32	2.8	3.2	22 x 35
19,000	380X193M7R5H032	63	30	2.9	3.3	22 x 35
20,000	380X203M7R5JO22	68	34	2.9	3.1	25 x 30

8,200	380822M010H012	140	60	1.7	2.0	22 x 25
9,700	380X972M010H012	118	51	1.8	2.2	22 x 25
10,000	380103M010H022	112	48	2.0	2.5	22 x 30
12,000	380123M010H022	93	40	2.2	2.7	22 x 30
13,000	380X133M010H022	86	37	2.3	2.8	22 x 30
14,000	380X143M010JO12	102	48	2.2	2.5	25 x 25
15,000	380153M010H032	77	34	2.5	3.1	22 x 35
17,000	380X173M010H032	68	30	2.7	3.3	22 x 35
18,000	380X183M010JO22	73	34	2.8	3.1	25 x 30
21,000	380X213M010H042	56	25	3.2	3.8	22 x 40
21,000	380X213M010K012	58	24	3.6	4.3	30 x 25
22,000	380223M010JO32	62	29	3.2	3.5	25 x 35
24,000	380X243M010JO32	57	27	3.3	3.7	25 x 35
27,000	380273M010A012	53	25	3.4	4.2	35 x 25
28,000	380X283M010A012	51	24	3.5	4.3	35 x 25
29,000	380X293M010H052	40	18	3.6	4.3	22 x 50
29,000	380X293M010JO42	47	22	3.9	4.3	25 x 40
29,000	380X293M010K022	43	18	4.6	5.3	30 x 30
33,000	380333M010K032	38	16	5.1	5.9	30 x 35
37,000	380X373M010K032	34	14	5.4	6.2	30 x 35

Cap. µF	Catalog Number	ESR mΩ		Ripple A		Nominal Size (mm) D x L
		Max	±30%	@85°C	120Hz 10kHz	

Cap. µF	Catalog Number	ESR mΩ		Ripple A		Nominal Size (mm) D x L
		Max	±30%	@85°C	120Hz 10kHz	

10Vdc - 12Vdc Surge (continued)

37,000	380X373M010AO22	38	18	5.4	6.1	35 x 30
39,000	380393M010JO52	36	17	4.8	5.3	25 x 50
41,000	380X413M010JO52	34	16	4.9	5.4	25 x 50
45,000	380X453M010KO42	28	12	6.2	7.1	30 x 40
47,000	380473M010AO32	31	14	5.9	6.7	35 x 35
48,000	380X483M010AO32	30	14	6.0	6.8	35 x 35
56,000	380563M010AO42	26	11	6.5	7.3	35 x 40
58,000	380X583M010AO42	25	11	6.6	7.4	35 x 40
64,000	380X643M010KO52	20	8	7.3	8.3	30 x 50
68,000	380683M010AO52	22	10	7.0	7.8	35 x 50
82,000	380X823M010AO52	18	8	7.7	8.6	35 x 50
100,000	380X104M010AO62	15	7	8.7	9.5	35 x 60
120,000	380X124M010AO72	12	6	9.5	10.3	35 x 70
150,000	380X154M010AO22	11	5	10.1	10.8	35 x 80

16Vdc - 18Vdc Surge

6,800	380682M016H012	134	53	1.8	2.2	22 x 25
7,000	380X702M016H012	130	51	1.8	2.2	22 x 25
8,200	380822M016H022	111	43	2.1	2.6	22 x 30
9,600	380X962M016H022	95	37	2.3	2.8	22 x 30
9,700	380X972M016JO12	111	48	2.1	2.5	25 x 25
10,000	380103M016H032	90	36	2.5	3.0	22 x 35
12,000	380X123M016H032	75	30	2.7	3.3	22 x 35
13,000	380X133M016JO22	79	34	2.7	3.1	25 x 30
15,000	380X153M016H042	62	25	3.2	3.8	22 x 40
15,000	380X153M016K012	63	24	3.5	4.3	30 x 25
17,000	380X173M016JO32	62	27	3.2	3.7	25 x 35
18,000	380183M016A012	61	27	3.3	4.1	35 x 25
20,000	380X203M016A012	55	24	3.5	4.3	35 x 25
21,000	380X213M016H052	44	18	3.6	4.3	22 x 50
21,000	380X213M016JO42	51	22	3.8	4.3	25 x 40
21,000	380X213M016KO22	47	18	4.4	5.3	30 x 30
22,000	380223M016KO32	44	17	4.8	5.7	30 x 35
26,000	380X263M016KO32	37	14	5.2	6.2	30 x 35
27,000	380X273M016AO22	42	18	5.2	6.0	35 x 30
29,000	380X293M016JO52	37	16	4.8	5.4	25 x 50
32,000	380X323M016KO42	30	12	6.0	7.1	30 x 40
33,000	380333M016AO32	34	14	5.8	6.7	35 x 35
34,000	380X343M016AO32	33	14	5.9	6.8	35 x 35
39,000	380393M016AO42	29	12	6.3	7.1	35 x 40
42,000	380X423M016AO42	27	11	6.5	7.4	35 x 40
46,000	380X463M016KO52	22	8	7.1	8.3	30 x 50
47,000	380473M016AO52	25	10	6.8	7.7	35 x 50
56,000	380563M016AO52	21	8	7.4	8.4	35 x 50
59,000	380X593M016AO52	20	8	7.6	8.6	35 x 50
68,000	380683M016AO62	17	8	8.2	9.1	35 x 60
74,000	380X743M016AO62	16	7	8.6	9.5	35 x 60
82,000	380823M016AO72	14	7	8.9	9.9	35 x 70
89,000	380X893M016AO72	13	6	9.3	10.3	35 x 70
100,000	380104M016AO82	12	6	9.5	10.3	35 x 80
110,000	380X114M016AO82	11	5	10.0	10.8	35 x 80

20Vdc - 25Vdc Surge

5,600	380562M020H012	140	53	1.8	2.2	22 x 25
5,800	380X582M020H012	135	51	1.8	2.2	22 x 25
6,800	380682M020H022	116	44	2.1	2.6	22 x 30
8,000	380X802M020H022	99	37	2.3	2.8	22 x 30
8,100	380X812M020JO12	114	48	2.1	2.5	25 x 25
8,200	380823M020H032	95	37	2.4	3.0	22 x 35
10,000	380X103M020H032	78	30	2.7	3.3	22 x 35
11,000	380X113M020JO22	82	34	2.7	3.1	25 x 30
12,000	380X123M020H042	64	25	3.2	3.8	22 x 40
13,000	380X133M020K012	66	24	3.5	4.3	30 x 25
14,000	380X143M020JO32	64	27	3.2	3.7	25 x 35
15,000	380153M020A012	61	26	3.4	4.2	35 x 25

20Vdc - 25Vdc Surge (continued)

16,000	380X163M020A012	57	24	3.5	4.3	35 x 25
17,000	380X173M020H052	46	18	3.6	4.3	22 x 50
17,000	380X173M020JO42	53	22	3.8	4.3	25 x 40
17,000	380X173M020KO22	49	18	4.4	5.3	30 x 30
18,000	380183M020KO32	46	17	4.7	5.6	30 x 35
22,000	380X223M020KO32	38	14	5.2	6.2	30 x 35
22,000	380X223M020AO22	43	18	5.2	6.0	35 x 30
24,000	380X243M020JO52	38	16	4.8	5.4	25 x 50
27,000	380X273M020KO42	32	12	6.0	7.1	30 x 40
29,000	380X293M020AO32	34	14	5.9	6.8	35 x 35
33,000	380333M020AO42	30	12	6.3	7.2	35 x 40
35,000	380X353M020AO42	28	11	6.5	7.4	35 x 40
38,000	380X383M020KO52	23	8	7.1	8.3	30 x 50
39,000	380393M020AO52	25	10	6.8	7.7	35 x 50
47,000	380473M020AO52	21	8	7.4	8.4	35 x 50
49,000	380X493M020AO52	20	8	7.6	8.6	35 x 50
56,000	380563M020AO62	18	8	8.2	9.0	35 x 60
62,000	380X623M020AO62	16	7	8.6	9.5	35 x 60
68,000	380683M020AO72	15	7	8.9	9.9	35 x 70
74,000	380X743M020AO72	14	6	9.3	10.3	35 x 70
82,000	380823M020AO82	13	5	9.7	10.4	35 x 80
88,000	380X883M020AO82	12	5	10.0	10.8	35 x 80

25Vdc - 30Vdc Surge

3,900	380392M025H012	166	60	1.6	2.0	22 x 25
4,500	380X452M025H012	144	52	1.7	2.2	22 x 25
4,700	380472M025H022	139	50	1.9	2.4	22 x 30
5,600	380562M025H022	116	42	2.1	2.7	22 x 30
6,200	380X622M025H022	105	38	2.2	2.8	22 x 30
6,300	380X632M025JO12	121	48	2.1	2.5	25 x 25
6,800	380682M025H032	96	35	2.4	3.1	22 x 35
7,900	380X792M025H032	83	30	2.6	3.3	22 x 35
8,200	380822M025JO22	89	36	2.6	3.0	25 x 30
8,500	380X852M025JO22	86	35	2.6	3.1	25 x 30
9,500	380X952M025H042	68	25	3.0	3.8	22 x 40
9,800	380X982M025K012	70	25	3.4	4.2	30 x 25
10,000	380103M025JO32	75	30	3.0	3.5	25 x 35
11,000	380X113M025JO32	68	27	3.1	3.7	25 x 35
12,000	380123M025H052	53	20	3.5	4.1	22 x 50
13,000	380X133M025H052	49	18	3.6	4.3	22 x 50
13,000	380X133M025JO42	56	23	3.6	4.3	25 x 40
13,000	380X133M025KO22	52	18	4.2	5.3	30 x 30
13,000	380X133M025A012	60	24	3.5	4.3	35 x 25
15,000	380153M025KO32	46	16	4.7	5.8	30 x 35
17,000	380X173M025KO32	41	14	5.0	6.2	30 x 35
17,000	380X173M025AO22	45	18	5.0	6.0	35 x 30
18,000	380183M025JO52	42	17	4.5	5.3	25 x 50
19,000	380X193M025JO52	40	16	4.6	5.4	25 x 50
21,000	380X213M025KO42	33	12	5.8	7.1	30 x 40
22,000	380X223M025AO32	36	14	5.7	6.8	35 x 35
27,000	380X273M025AO42	30	12	6.3	7.4	35 x 40
29,000	380X293M025KO52	24	9	6.9	8.2	30 x 50
33,000	380333M025AO52	24	9	6.8	7.9	35 x 50
38,000	380X383M025AO52	21	8	7.3	8.5	35 x 50
39,000	380393M025AO62	20	8	7.6	8.7	35 x 60
47,000	380X473M025AO62	17	7	8.3	9.5	35 x 60
56,000	380563M025AO72	15	6	9.0	10.2	35 x 70
57,000	380X573M025AO72	15	6	9.1	10.3	35 x 70
68,000	380X683M025AO82	12	5	9.8	10.8	35 x 80

35Vdc - 45Vdc Surge

2,700	380272M035H012	170	64	1.5	1.9	22 x 25
3,100	380X312M035H012	148	56	1.6	2.0	22 x 25
3,300	380333M035H022	137	52	1.9	2.2	22 x 30
3,900	380392M035H022	116	44	2.0	2.4	22 x 30



Cap. μ F	Catalog Number	ESR m Ω		Ripple A		Nominal Size (mm) D x L
		Max	$\pm 30\%$	@85°C	120Hz 10kHz	
		120 Hz	10kHz	120Hz	10kHz	

Cap. μ F	Catalog Number	ESR m Ω		Ripple A		Nominal Size (mm) D x L
		Max	$\pm 30\%$	@85°C	120Hz 10kHz	
		120 Hz	10kHz	120Hz	10kHz	

35Vdc - 45Vdc Surge (continued)

50Vdc - 65Vdc Surge (continued)

4,200	380X422M035H022	108	41	2.1	2.5	22 x 30
4,300	380X432M035JO12	124	52	1.9	2.2	25 x 25
4,700	380472M035H032	98	38	2.3	2.8	22 x 35
5,400	380X542M035H032	85	33	2.5	3.0	22 x 35
5,600	380562M035JO22	93	39	2.3	2.6	25 x 30
5,900	380X592M035JO22	88	37	2.4	2.7	25 x 30
6,600	380X662M035H042	70	27	2.9	3.5	22 x 40
6,800	380X682M035K012	72	27	3.2	3.8	30 x 25
7,500	380X752M035JO32	69	29	2.8	3.2	25 x 35
8,200	380822M035A012	65	28	3.4	4.2	35 x 25
8,700	380X872M035A012	61	26	3.5	4.3	35 x 25
9,100	380X912M035JO42	57	24	3.3	3.8	25 x 40
9,200	380X922M035KO22	53	20	4.0	4.8	30 x 30
9,300	380X932M035H052	50	19	3.6	4.3	22 x 50
10,000	380103M035KO32	50	19	4.3	5.1	30 x 35
12,000	380X123M035KO32	42	16	4.7	5.6	30 x 35
12,000	380X123M035AO22	47	19	4.6	5.3	35 x 30
13,000	380X133M035JO52	41	17	4.3	4.8	25 x 50
14,000	380X143M035KO42	34	13	5.5	6.5	30 x 40
15,000	380X153M035AO32	37	15	5.2	6.0	35 x 35
18,000	380X183M035AO42	30	12	5.8	6.6	35 x 40
20,000	380X203M035KO52	25	9	6.5	7.6	30 x 50
22,000	380223M035AO52	26	11	6.3	7.1	35 x 50
26,000	380X263M035AO52	22	9	6.9	7.7	35 x 50
27,000	380273M035AO62	22	9	7.1	7.9	35 x 60
33,000	380X333M035AO62	18	7	7.8	8.7	35 x 60
39,000	380X393M035AO72	15	6	8.6	9.5	35 x 70
47,000	380X473M035AO82	13	6	9.3	10.1	35 x 80
14,000	380X143M035KO4	34	13	5.5	6.5	30 x 40
15,000	380X153M035AO3	37	15	5.2	6.0	35 x 35
18,000	380X183M035AO4	30	12	5.8	6.6	35 x 40
20,000	380X203M035KO5	25	9	6.5	7.6	30 x 50
26,000	380X263M035AO5	22	9	6.9	7.7	35 x 50
33,000	380X333M035AO6	18	7	7.8	8.7	35 x 60
39,000	380X393M035AO7	15	6	8.6	9.5	35 x 70
47,000	380X473M035AO8	13	6	9.3	10.1	35 x 80

16,000	380X163M050AO52	22	9	6.8	7.7	35 x 50
18,000	380183M050AO62	20	9	7.4	8.3	35 x 60
20,000	380X203M050AO62	18	8	7.8	8.7	35 x 60
22,000	380223M050AO72	17	7	8.1	8.9	35 x 70
25,000	380X253M050AO72	15	6	8.6	9.5	35 x 70
27,000	380273M050AO82	14	6	9.0	9.7	35 x 80
29,000	380X293M050AO82	13	6	9.3	10.1	35 x 80

63Vdc - 75Vdc Surge

1,200	380122M063H012	170	64	1.5	1.9	22 x 25
1,300	380X132M063H012	157	59	1.6	2.0	22 x 25
1,500	380152M063H022	146	54	1.8	2.2	22 x 30
1,800	380182M063H022	121	45	1.9	2.4	22 x 30
1,900	380X192M063H022	115	43	2.0	2.5	22 x 30
1,900	380X192M063JO12	131	54	1.9	2.2	25 x 25
2,200	380222M063H032	98	37	2.3	2.8	22 x 35
2,400	380X242M063H032	90	34	2.4	2.9	22 x 35
2,600	380X262M063JO22	93	38	2.4	2.7	25 x 30
2,700	380272M063H042	81	30	2.7	3.3	22 x 40
2,900	380X292M063H042	75	28	2.8	3.4	22 x 40
2,900	380X292M063K012	76	28	3.1	3.8	30 x 25
3,300	380X332M063JO32	73	30	2.8	3.2	25 x 35
3,800	380X382M063AO12	65	27	3.5	4.3	35 x 25
3,900	380392M063H052	54	21	3.6	4.2	22 x 50
4,000	380X402M063H052	53	20	3.6	4.3	22 x 50
4,000	380X402M063JO42	61	25	3.3	3.8	25 x 40
4,000	380X402M063KO22	56	21	3.9	4.7	30 x 30
4,700	380472M063KO32	48	17	4.4	5.3	30 x 35
5,100	380X512M063KO32	44	16	4.6	5.5	30 x 35
5,200	380X522M063AO22	49	20	4.6	5.3	35 x 30
5,600	380X562M063JO52	43	18	4.2	4.8	25 x 50
6,200	380X622M063KO42	36	13	5.4	6.4	30 x 40
6,600	380X662M063AO32	39	16	5.2	5.9	35 x 35
6,800	380682M063AO42	38	15	5.3	6.1	35 x 40
8,000	380X802M063AO42	32	13	5.7	6.6	35 x 40
8,200	380822M063KO52	29	11	6.2	7.2	30 x 50
8,800	380X882M063KO52	27	10	6.4	7.5	30 x 50
10,000	380103M063AO52	25	10	6.5	7.3	35 x 50
11,000	380X113M063AO52	23	9	6.8	7.7	35 x 50
12,000	380123M063AO62	22	9	7.1	8.0	35 x 60
14,000	380X143M063AO62	19	8	7.7	8.6	35 x 60
15,000	380153M063AO72	18	8	8.0	8.0	35 x 70
17,000	380X173M063AO82	16	7	8.5	8.5	35 x 80
18,000	380183M063AO82	14	7	8.7	9.6	35 x 80
20,000	380X203M063AO82	13	6	9.2	10.1	35 x 80

50Vdc - 65Vdc Surge

1,800	380182M050H012	162	61	1.6	1.9	22 x 25
1,900	380X192M050H012	153	58	1.6	2.0	22 x 25
2,200	380222M050H022	137	52	1.9	2.3	22 x 30
2,700	380X272M050H022	112	42	2.1	2.5	22 x 30
2,700	380X272M050JO12	128	53	1.9	2.2	25 x 25
3,300	380332M050H032	91	34	2.4	3.0	22 x 35
3,400	380X342M050H032	88	33	2.4	3.0	22 x 35
3,700	380X372M050JO22	91	38	2.4	2.7	25 x 30
3,900	380392M050H042	77	29	2.8	3.4	22 x 40
4,100	380X412M050H042	73	28	2.9	3.5	22 x 40
4,200	380X422M050K012	74	27	3.1	3.8	30 x 25
4,700	380X472M050JO32	72	30	2.8	3.2	25 x 35
5,500	380X552M050AO12	63	26	3.5	4.3	35 x 25
5,600	380562M050JO42	60	25	3.3	3.8	25 x 40
5,700	380X572M050JO42	59	25	3.3	3.8	25 x 40
5,700	380X572M050KO22	55	20	4.0	4.7	30 x 30
5,800	380X582M050H052	52	20	3.6	4.3	22 x 50
6,800	380682M050KO32	46	17	4.5	5.4	30 x 35
7,300	380X732M050KO32	43	16	4.7	5.6	30 x 35
7,400	380X742M050AO22	48	19	4.6	5.3	35 x 30
8,100	380X812M050JO52	42	18	4.2	4.8	25 x 50
8,200	380822M050KO42	39	14	5.2	6.1	30 x 40
8,900	380X892M050KO42	36	13	5.4	6.4	30 x 40
9,500	380X952M050AO32	38	15	5.2	6.0	35 x 35
10,000	380103M050AO42	37	16	5.3	6.0	35 x 40
12,000	380X123M050AO42	31	13	5.8	6.6	35 x 40
13,000	380X133M050KO52	26	9	6.5	7.6	30 x 50
15,000	380153M050AO52	23	10	6.6	7.5	35 x 50

80Vdc - 100Vdc Surge

1,000	380X102M080H012	198	85	1.5	1.8	22 x 25
1,200	380122M080H022	169	72	1.8	2.0	22 x 30
1,400	380X142M080H022	145	62	1.9	2.2	22 x 30
1,500	380X152M080JO12	163	74	1.8	2.0	25 x 25
1,800	380X182M080H032	114	49	2.2	2.6	22 x 35
2,000	380X202M080JO22	116	53	2.2	2.5	25 x 30
2,200	380X222M080H042	94	40	2.6	3.1	22 x 40
2,300	380X232M080K012	96	40	2.9	3.4	30 x 25
2,500	380X252M080JO32	92	42	2.6	3.0	25 x 35
2,700	380272M080A012	87	40	2.9	3.1	35 x 25
2,900	380X292M080A012	81	37	3.0	3.2	35 x 25
3,100	380X312M080H052	67	29	3.2	3.6	22 x 50
3,100	380X312M080JO42	76	34	3.1	3.5	25 x 40
3,100	380X312M080KO22	71	29	3.6	4.2	30 x 30
3,300	380332M080KO32	66	27	4.0	4.6	30 x 35
3,900	380X392M080KO32	56	23	4.3	5.0	30 x 35
4,000	380X402M080AO22	61	27	4.3	4.9	35 x 30
4,300	380X432M080JO52	54	25	4.0	4.5	25 x 50

56

Cap. µF	Catalog Number	ESR mΩ		Ripple A		Nominal Size (mm) D x L
		Max ±30%		@85°C		
		120 Hz	10kHz	120Hz	10kHz	

Cap. µF	Catalog Number	ESR mΩ		Ripple A		Nominal Size (mm) D x L
		Max ±30%		@85°C		
		120 Hz	10kHz	120Hz	10kHz	

80Vdc - 100Vdc Surge

4,700	380472M080KO42	47	19	4.9	5.7	30 x 40
4,800	380X482M080KO42	46	19	5.0	5.8	30 x 40
5,100	380X512M080AO32	49	21	4.8	5.5	35 x 35
5,600	380562M080AO42	44	20	5.1	5.8	35 x 40
6,200	380X622M080AO42	40	18	5.4	6.1	35 x 40
6,800	380X682M080KO52	33	14	6.0	6.9	30 x 50
8,200	380822M080AO52	30	14	6.2	7.0	35 x 50
8,800	380X882M080AO52	28	13	6.4	7.2	35 x 50
10,000	380103M080AO62	25	12	7.0	7.8	35 x 60
11,000	380X113M080AO62	23	11	7.3	8.2	35 x 60
12,000	380123M080AO72	22	10	7.8	8.6	35 x 70
13,000	380X133M080AO72	20	9	8.1	9.0	35 x 70
15,000	380153M080AO82	18	9	8.5	9.3	35 x 80
16,000	380X163M080AO82	17	8	8.8	9.6	35 x 80

100Vdc - 125Vdc Surge

680	380681M100H012	216	91	1.4	1.7	22 x 25
700	380X701M100H012	210	88	1.4	1.7	22 x 25
820	380821M100H022	179	75	1.7	2.0	22 x 30
960	380X961M100H022	153	64	1.8	2.2	22 x 30
980	380X981M100JO12	172	77	1.7	2.0	25 x 25
1,000	380102M100H032	144	61	2.0	2.4	22 x 35
1,200	380X122M100H032	120	51	2.2	2.6	22 x 35
1,300	380X132M100JO22	123	55	2.2	2.5	25 x 30
1,500	380X152M100H042	100	42	2.5	3.0	22 x 40
1,500	380X152M100K012	102	41	2.8	3.3	30 x 25
1,700	380X172M100JO32	97	43	2.6	3.0	25 x 35
1,800	380182M100AO12	94	42	2.8	3.0	35 x 25
2,000	380X202M100AO12	85	38	3.0	3.2	35 x 25
2,100	380X212M100H052	71	30	3.2	3.6	22 x 50
2,100	380X212M100JO42	80	36	3.0	3.5	25 x 40
2,100	380X212M100KO22	75	30	3.5	4.2	30 x 30
2,200	380222M100KO32	72	29	3.8	4.4	30 x 35
2,700	380X272M100KO32	59	24	4.2	4.9	30 x 35
2,700	380X272M100AO22	65	28	4.2	4.8	35 x 30
2,900	380X292M100JO52	57	25	3.9	4.4	25 x 50
3,200	380X322M100KO42	48	20	4.9	5.7	30 x 40
3,300	380332M100AO32	53	23	4.7	5.4	35 x 35
3,400	380X342M100AO32	51	22	4.8	5.5	35 x 35
3,900	380392M100AO42	45	19	5.1	5.8	35 x 40
4,200	380X422M100AO42	42	18	5.3	6.0	35 x 40
4,600	380X462M100KO52	35	14	5.9	6.8	30 x 50
4,700	380472M100AO52	38	16	5.6	6.3	35 x 50
5,600	380562M100AO52	32	14	6.1	6.9	35 x 50
5,900	380X592M100AO52	30	13	6.3	7.1	35 x 50
6,800	380682M100AO62	26	12	6.9	7.8	35 x 60
7,400	380X742M100AO62	24	11	7.2	8.1	35 x 60
8,200	380822M100AO72	23	10	7.7	8.5	35 x 70
8,900	380X892M100AO72	21	9	8.0	8.9	35 x 70
10,000	380103M100AO82	20	9	8.3	9.2	35 x 80
11,000	380X113M100AO82	18	8	8.7	9.6	35 x 80

200Vdc - 250Vdc Surge

180	380181M200H012	550	206	0.7	0.9	22 x 25
200	380X201M200H012	495	185	0.7	1.0	22 x 25
220	380221M200H022	443	166	0.8	1.2	22 x 30
270	380X271M200H022	361	135	0.9	1.3	22 x 30
270	380X271M200JO12	394	158	0.9	1.2	25 x 25
330	380331M200H032	292	109	1.1	1.5	22 x 35
340	380X341M200H032	283	106	1.1	1.5	22 x 35
370	380X371M200JO22	290	116	1.1	1.5	25 x 30
390	380391M200H042	252	95	1.3	1.7	22 x 40
420	380X421M200H042	234	88	1.3	1.8	22 x 40
430	380X431M200K012	254	95	1.4	1.9	30 x 25
470	380X471M200JO32	227	91	1.4	1.8	25 x 35

200Vdc - 250Vdc Surge (continued)

550	380X551M200AO12	207	81	1.8	2.3	35 x 25
560	380561M200JO42	194	78	1.6	2.1	25 x 40
580	380X581M200JO42	187	75	1.6	2.1	25 x 40
580	380X581M200KO22	187	70	1.8	2.4	30 x 30
590	380X591M200H052	166	62	1.6	2.2	22 x 50
680	380681M200KO32	159	60	2.0	2.8	30 x 35
740	380X741M200KO32	146	55	2.1	2.9	30 x 35
750	380X751M200AO22	152	60	2.2	2.9	35 x 30
820	380X821M200JO52	133	53	2.1	2.7	25 x 50
900	380X901M200KO42	120	45	2.5	3.4	30 x 40
960	380X961M200AO32	120	47	2.5	3.3	35 x 35
1,000	380100M200AO42	118	47	2.6	3.4	35 x 40
1,200	380X122M200AO42	98	39	2.8	3.7	35 x 40
1,300	380X132M200KO52	85	32	3.1	4.2	30 x 50
1,500	380152M200AO52	79	32	3.3	4.3	35 x 50
1,700	380X172M200AO52	70	28	3.5	4.6	35 x 50
1,800	380182M200AO62	65	26	3.8	5.0	35 x 60
2,100	380X212M200AO62	56	22	4.1	5.4	35 x 60
2,200	380222M200AO72	53	22	4.5	5.8	35 x 70
2,500	380X252M200AO72	47	19	4.8	6.2	35 x 70
2,700	380272M200AO82	43	18	5.1	6.7	35 x 80
3,000	380X302M200AO82	39	16	5.4	7.1	35 x 80

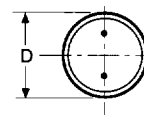
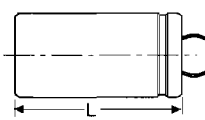
250Vdc - 300Vdc Surge

120	380121M250H012	688	236	0.6	0.9	22 x 25
150	380X151M250H012	550	189	0.7	1.0	22 x 25
180	380181M250H022	446	153	0.9	1.2	22 x 30
200	380X201M250H022	401	138	0.9	1.3	22 x 30
210	380X211M250JO12	436	161	0.9	1.2	25 x 25
220	380221M250H032	372	128	1.0	1.4	22 x 35
260	380X261M250H032	315	108	1.1	1.5	22 x 35
270	380X271M250JO22	333	122	1.0	1.5	25 x 30
280	380X281M250JO22	321	118	1.0	1.5	25 x 30
320	380X321M250H042	260	89	1.2	1.8	22 x 40
330	380X331M250K012	281	97	1.3	1.9	30 x 25
360	380X361M250JO32	252	93	1.3	1.8	25 x 35
390	380391M250AO12	247	89	1.5	2.2	35 x 25
420	380X421M250AO12	229	83	1.6	2.3	35 x 25
440	380X441M250JO42	207	77	1.5	2.1	25 x 40
440	380X441M250KO22	207	71	1.7	2.4	30 x 30
450	380X451M250H052	184	64	1.6	2.2	22 x 50
470	380471M250KO32	196	68	1.8	2.6	30 x 35
560	380561M250KO32	165	57	2.0	2.9	30 x 35
570	380X571M250KO32	162	56	2.0	2.9	30 x 35
570	380X571M250AO22	168	61	2.0	2.9	35 x 30
620	380X621M250JO52	147	54	2.0	2.7	25 x 50
680	380681M250KO42	136	47	2.3	3.4	30 x 40
690	380X691M250KO42	134	46	2.3	3.4	30 x 40
730	380X731M250AO32	132	48	2.3	3.3	35 x 35
820	380821M250AO42	118	42	2.5	3.6	35 x 40
890	380X891M250AO42	109	39	2.6	3.7	35 x 40
970	380X971M250KO52	95	33	2.9	4.2	30 x 50
1,000	380102M250AO52	100	36	2.8	3.9	35 x 50
1,200	380122M250AO52	83	30	3.1	4.3	35 x 50
1,300	380X132M250AO52	77	28	3.2	4.5	35 x 50
1,500	380152M250AO62	66	25	3.8	5.1	35 x 60
1,600	380X162M250AO62	62	23	3.9	5.3	35 x 60
1,800	380182M250AO72	55	20	4.4	6.0	35 x 70
1,900	380X192M250AO72	52	19	4.5	6.2	35 x 70
2,200	380222M250AO82	45	17	5.0	6.8	35 x 80
2,300	380X232M250AO82	43	16	5.1	7.0	35 x 80

300Vdc - 350Vdc Surge

100	380101M300H012	1705	781	0.6	0.8	22 x 25
110	380X111M300H012	1550	710	0.6	0.8	22 x 25

Cap. μF	Catalog Number	ESR mΩ Max ±30%	Ripple A @85°C	Nominal Size (mm) D x L
		120 Hz 10kHz	120Hz 10kHz	



Lead spacing is 10.0 ± 0.1 mm
Leads are 14 AWG (1.82 mm)
Leads are 6.3 ± 1.0 mm long

450Vdc - 500Vdc Surge (continued)

220	380221M450JO52	507	201	1.2	1.8	25 x 50
230	380X231M450JO52	485	192	1.2	1.8	25 x 50
250	380X251M450KO42	472	182	1.4	2.0	30 x 40
270	380X271M450AO32	468	182	1.4	2.1	35 x 35
320	380X321M450AO42	384	149	1.6	2.3	35 x 40
330	380X331M450KO52	364	141	1.6	2.4	30 x 50
360	380X361M450KO52	334	129	1.7	2.5	30 x 50
390	380X391M450AO52	321	125	1.8	2.7	35 x 50
460	380X461M450AO52	272	106	2.0	2.9	35 x 50
470	380471M450AO62	263	103	2.1	3.1	35 x 60
560	380561M450AO62	221	87	2.3	3.4	35 x 60
570	380X571M450AO62	217	85	2.3	3.4	35 x 60
680	380681M450AO72	184	72	2.7	4.0	35 x 70
690	380X691M450AO72	181	71	2.7	4.0	35 x 70
820	380X821M450AO82	152	59	3.1	4.5	35 x 80

500 Vdc - 550 Vdc Surge

39	380390M500H01	5910	4068	0.2	0.3	22 x 25
43	380X430M500H01	5360	3690	0.2	0.3	22 x 25
47	38047M500H02	4979	3434	0.3	0.3	22 x 30
56	380560M500H02	4179	2882	0.3	0.3	22 x 30
60	380X600M500H02	3900	2690	0.3	0.3	22 x 30
61	380X610M500JO1	3850	2660	0.3	0.3	25 x 25
68	380680M500H03	3420	2358	0.4	0.4	22 x 35
76	380X760M500H03	3060	2110	0.4	0.4	22 x 35
82	380X820M500JO2	2830	1960	0.4	0.4	25 x 30
92	380X920M500H04	2520	1710	0.4	0.5	22 x 40
95	380X950M500K01	2450	1690	0.4	0.5	30 x 25
100	380101M500JO3	2442	1683	0.4	0.5	25 x 35
110	380X111M500JO3	2220	1530	0.4	0.5	25 x 35
120	380X121M500A01	1900	1310	0.5	0.6	35 x 25
130	380X131M500H05	1790	1230	0.5	0.6	22 x 50
130	380X131M500JO4	1830	1260	0.5	0.6	25 x 40
130	380X131M500KO2	1800	1240	0.5	0.6	30 x 30
150	380151M500KO3	1504	1040	0.6	0.7	30 x 35
160	380X161M500KO3	1410	975	0.6	0.7	30 x 35
170	380X171M500AO2	1400	966	0.7	0.8	35 x 30
180	380X181M500JO5	1290	890	0.7	0.8	25 x 50
200	380X201M500KO4	1160	802	0.7	0.8	30 x 40
210	380X211M500AO3	1100	758	0.8	0.9	35 x 35
220	380221M500AO4	1065	735	0.8	1.0	35 x 40
260	380X261M500AO4	901	622	0.9	1.1	35 x 40
270	380271M500KO5	851	587	1.0	1.1	30 x 50
280	380X281M500KO5	821	566	1.0	1.1	30 x 50
330	380331M500AO5	714	492	1.1	1.3	35 x 50
370	380X371M500AO5	637	439	1.2	1.4	35 x 50
390	380391M500AO6	600	415	1.3	1.5	35 x 60
460	380X461M500AO6	509	352	1.4	1.6	35 x 60
470	380471M500AO7	496	343	1.6	1.8	35 x 70
550	380X551M500AO7	424	293	1.7	1.9	35 x 70
560	380561M500AO8	418	289	1.8	2.0	35 x 80
660	380X661M500AO8	355	245	1.9	2.2	35 x 80

Insulated-Case Dimensions

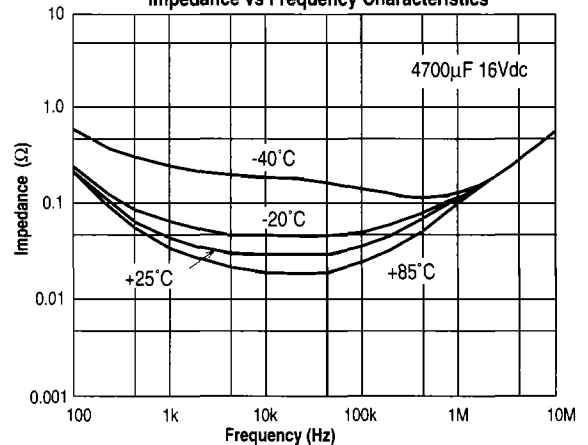
Case Code	Diam. in.	Diam. mm	Length in.	Length mm	Case Code	Diam. in.	Diam. mm	Length in.	Length mm
H01	0.87	22	0.98	25	K04	1.18	30	1.57	40
H02	0.87	22	1.10	30	K05	1.18	30	1.97	50
H04	0.87	22	1.57	40	A01	1.38	35	0.98	25
H05	0.87	22	1.97	50	A02	1.38	35	1.18	30
J01	0.98	25	0.98	25	A04	1.38	35	1.57	40
J02	0.98	25	1.18	30	A05	1.38	35	1.97	50
J04	0.98	25	1.57	40	A06	1.38	35	2.36	60
J05	0.98	25	1.97	50	A07	1.35	35	2.76	70
K01	1.18	30	0.98	25	A08	1.38	35	3.15	80
K02	1.18	30	1.18	30					

Ordering Information for Types 380X

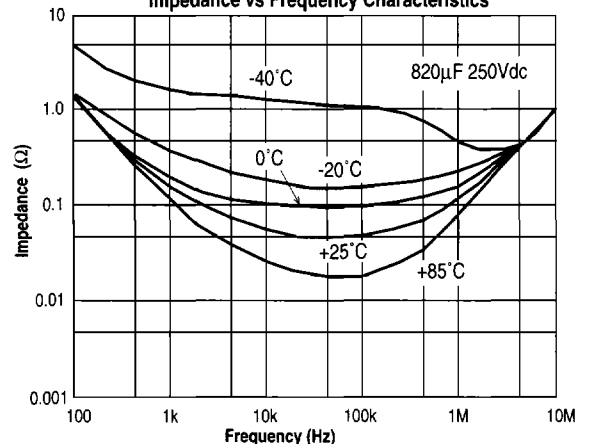
380X 123 M 6R3 H01 2 E

Type: 380X-----|
Capacitance: 100 = 10μF; 101 = 100μF-----|
 102 = 1000μF; 123 = 12,000μF
Tolerance: M = ±20%; P = -10% + 30%;-----|
 U = -10% + 75%; T = -10% + 50%
Voltage: 6R3 = 6.3Vdc; 063 = 63Vdc; 100 = 100Vdc-----|
Case Code: See table-----|
Insulation: 0 = None; 1 = Polyester; 2 = PVC-----|
 8 = PVC & Standoffs; 9 = Polyester & Standoffs
Epoxy End Seal: E = epoxy; blank = no epoxy-----|

Impedance vs Frequency Characteristics



Impedance vs Frequency Characteristics



Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Cornell Dubilier:](#)

[380X473M035A082](#) [380X821M450A082](#)