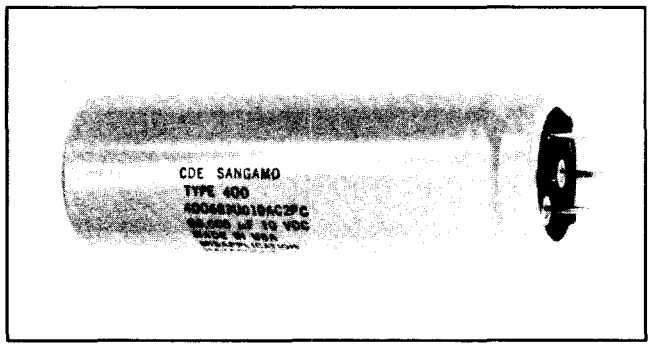
Long Life High Ripple Computer Grade, 95°C

Type 400-Standard/Type 400X-Max Cap/Type 400R-Max Ripple



Designed for minicomputers and other long life power supply filter applications, type 400 delivers nearly the capacitance of the type 4CM but with 2 to 3 times the life. Type 400R is the best value for high ripple applications.

Performance Highlights:

- Capacitance 56 uF to 50,000 uF, -10% +75%
- Voltage 6.3 Vdc to 450 Vdc
- Operating temperature -40°C +95°C
- 2,000 hours load life test at +95°C
- 1,500 hours full-ripple life test at +85°C
- 250 hours shelf life test at 95°C
- Leakage current ≤ 0.003 CV uA (4 mA max)

Ratings:

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
6.3 Vdc — 9 Vdc Surge							
27000	0.0400	0.0270	6.9	9.4	1⅜ x 1⅝	400R273U6R3AK8	AK
27000	0.0440	0.0300	4.6	5.9	1⅜ x 1⅝	400273U6R3AK8	AK
39000	0.0440	0.0300	4.6	5.9	1⅜ x 1⅝	400X393U6R3AK8	AK
39000	0.0260	0.0170	9.2	12.3	1⅜ x 2⅛	400R393U6R3AA8	AA
39000	0.0280	0.0200	6.0	7.6	1⅜ x 2⅛	400393U6R3AA8	AA
56000	0.0210	0.0150	7.2	9.1	1⅜ x 2⅝	400563U6R3AH8	AH
56000	0.0190	0.0130	11.1	14.6	1⅜ x 2⅝	400R563U6R3AH8	AH
61000	0.0280	0.0200	6.0	7.6	1⅜ x 2⅛	400X613U6R3AA8	AA
68000	0.0160	0.0110	12.5	16.4	1⅜ x 3⅛	400R683U6R3AB8	AB
68000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400683U6R3AB8	AB
82000	0.0150	0.0110	8.9	10.9	1⅜ x 3⅝	400823U6R3AJ8	AJ
82000	0.0130	0.0091	13.7	17.8	1⅜ x 3⅝	400R823U6R3AJ8	AJ
83000	0.0210	0.0150	7.2	9.1	1⅜ x 2⅝	400X833U6R3AH8	AH
100000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400104U6R3BA8	BA
100000	0.0150	0.0110	14.0	16.5	2 x 2⅛	400R104U6R3BA8	BA
100000	0.0110	0.0080	14.7	18.8	1⅜ x 4⅛	400R104U6R3AC8	AC
100000	0.0130	0.0094	9.5	11.5	1⅜ x 4⅛	400104UR3AC8	AC
110000	0.0210	0.0160	7.6	8.7	1¾ x 2⅛	400X114U6R3EA8	EA
120000	0.0100	0.0076	17.0	20.4	1¾ x 3⅛	400R124U6R3EB8	EB
120000	0.0130	0.0100	10.2	11.5	1¾ x 3⅛	400124U6R3EB8	EB
130000	0.0150	0.0110	8.9	10.9	1⅜ x 3⅝	400X134U6R3AJ8	AJ
140000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400X144U6R3BA8	BA
150000	0.0110	0.0090	11.0	12.3	1¾ x 3⅝	400154U6R3EJ8	EJ
150000	0.0089	0.0066	18.3	21.8	1¾ x 3⅝	400R154U6R3EJ8	EJ
150000	0.0130	0.0094	9.5	11.5	1⅜ x 4⅛	400X154U6R3AC8	AC
170000	0.0120	0.0086	9.9	11.9	1⅜ x 4⅝	400X174U6R3AD8	AD
180000	0.0100	0.0081	11.6	13.0	1¾ x 4⅛	400184U6R3EC8	EC
180000	0.0078	0.0059	19.5	22.9	1¾ x 4⅛	400R184U6R3EC8	EC
190000	0.0150	0.0130	9.6	10.5	2 x 2⅝	400X194U6R3BH8	BH
220000	0.0100	0.0082	12.3	13.4	2 x 4⅛	400224U6R3BC8	BC
220000	0.0071	0.0056	21.4	17.2	2 x 4⅛	400R224U6R3BC8	BC
240000	0.0130	0.0100	10.8	24.3	2 x 3⅛	400X244U6R3BB8	BB
270000	0.0089	0.0076	12.9	14.0	2 x 4⅝	400274U6R3BD8	BD
270000	0.0065	0.0052	22.5	25.3	2 x 4⅝	400R274U6R3BD8	BD
270000	0.0100	0.0081	11.6	13.0	1¾ x 4⅛	400X274U6R3EC8	EC
290000	0.0110	0.0091	11.6	12.7	2 x 3⅝	400X294U6R3BJ8	BJ
330000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400334U6R3BF8	BF

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
6.3 Vdc — 9 Vdc Surge							
330000	0.0057	0.0046	23.6	26.1	2 x 5⅝	400R334U6R3BF8	BF
350000	0.0100	0.0082	12.3	13.4	2 x 4⅛	400X354U6R3BC8	BC
400000	0.0089	0.0076	12.9	14.0	2 x 4⅝	400X404U6R3BD8	BD
450000	0.0083	0.0071	13.3	14.3	2 x 5⅛	400X454U6R3BE8	BE
500000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400X504U6R3BF8	BF
7.5 Vdc — 10 Vdc Surge							
22000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400223U7R5AK8	AK
22000	0.0410	0.0270	6.9	9.4	1⅜ x 1⅝	400R223U7R5AK8	AK
33000	0.0260	0.0170	9.1	12.3	1⅜ x 2⅛	400R333U7R5AA8	AA
37000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400X373U7R5AK8	AK
39000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400393U7R5AA8	AA
47000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400473U7R5AH8	AH
47000	0.0200	0.0130	11.0	14.6	1⅜ x 2⅝	400R473U7R5AH8	AH
56000	0.0160	0.0110	12.4	16.4	1⅜ x 3⅛	400R563U7R5AB8	AB
58000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400X583U7R5AA8	AA
68000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400683U7R5AB8	AB
68000	0.0130	0.0091	13.6	17.8	1⅜ x 3⅝	400R683U7R5AJ8	AJ
79000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400X793U7R5AH8	AH
82000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400823U7R5BA8	BA
82000	0.0120	0.0080	14.6	18.8	1⅜ x 4⅛	400R823U7R5AC8	AC
82000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400823U7R5AC8	AC
100000	0.0110	0.0087	16.5	19.4	2 x 2⅝	400R104U7R5BH8	BH
100000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400X104U7R5AB8	AB
110000	0.0210	0.0160	7.5	8.7	1¾ x 2⅛	400X114U7R5EA8	EA
120000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400124U7R5BH8	BH
120000	0.0094	0.0072	18.6	21.6	2 x 3⅛	400R124U7R5BB8	BB
130000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400X134U7R5BA8	BA
140000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400X144U7R5AC8	AC
150000	0.0130	0.0100	10.7	11.8	2 x 3⅛	400154U7R5BB8	BB
150000	0.0081	0.0063	20.1	23.1	2 x 3⅝	400R154U7R5BJ8	BJ
150000	0.0079	0.0059	19.3	22.9	1¾ x 4⅛	400R154U7R5EC8	EC
180000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400X184U7R5BH8	BH
180000	0.0110	0.0091	11.6	12.7	2 x 3⅝	400184U7R5BJ8	BJ
180000	0.0072	0.0056	21.3	24.3	2 x 4⅛	400R184U7R5BC8	BC
180000	0.0100	0.0081	11.6	13.0	1¾ x 4⅛	400184U7R5EC8	EC
190000	0.0110	0.0079	10.3	12.3	1⅞ x 5⅛	400X194U7R5AE8	AE

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
7.5 Vdc — 10 Vdc Surge							
220000	0.0100	0.0082	12.3	13.4	2 x 4⅛	400224U7R5BC8	BC
220000	0.0066	0.0052	22.4	25.3	2 x 4⅝	400R224U7R5BD8	BD
230000	0.0130	0.0100	10.7	11.8	2 x 3⅛	400X234U7R5BB8	BB
260000	0.0100	0.0081	11.6	13.0	1¾ x 4⅛	400X264U7R5EC8	EC
270000	0.0084	0.0071	13.3	14.3	2 x 5⅛	400274U7R5BE8	BE
270000	0.0057	0.0046	23.5	26.1	2 x 5⅝	400R274U7R5BF8	BF
280000	0.0110	0.0091	11.6	12.7	2 x 3⅝	400X284U7R5BJ8	BJ
330000	0.0100	0.0082	12.3	13.4	2 x 4⅛	400X334U7R5BC8	BC
330000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400334U7R5BF8	BF
340000	0.0085	0.0070	12.6	13.9	1¾ x 5⅛	400X344U7R5EE8	EE
380000	0.0090	0.0076	12.9	14.0	2 x 4⅝	400X384U7R5BD8	BD
430000	0.0084	0.0071	13.3	14.3	2 x 5⅛	400X434U7R5BE8	BE
480000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400X484U7R5BF8	BF
10 Vdc — 15 Vdc Surge							
18000	0.0410	0.0270	6.9	9.4	1⅜ x 1⅝	400R183U010AK8	AK
18000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400183U010AK8	AK
27000	0.0260	0.0170	9.1	12.3	1⅜ x 2⅛	400R273U010AA8	AA
27000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400273U010AA8	AA
29000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400X293U010AK8	AK
39000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400393U010AH8	AH
39000	0.0200	0.0130	11.0	14.6	1⅜ x 2⅝	400R393U010AH8	AH
46000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400X463U010AA8	AA
47000	0.0160	0.0110	12.4	16.4	1⅜ x 3⅛	400R473U010AB8	AB
47000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400473U010AB8	AB
56000	0.0150	0.0110	13.9	16.5	2 x 2⅛	400R563U010BA8	BA
56000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400563U010BA8	BA
63000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400X633U010AH8	AH
68000	0.0120	0.0080	14.6	18.8	1⅜ x 4⅛	400R683U010AC8	AC
68000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400683U010AC8	AC
80000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400X803U010AB8	AB
82000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400823U010BH8	BH
82000	0.0110	0.0087	16.5	19.4	2 x 2⅝	400R823U010BH8	BH
84000	0.0210	0.0160	7.5	8.7	1¾ x 2⅛	400X843U010EA8	EA
100000	0.0130	0.0100	10.7	11.8	2 x 3⅛	400104U010BB8	BB
100000	0.0094	0.0072	18.6	21.6	2 x 3⅛	400R104U010BB8	BB
110000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400X114U010BA8	BA
120000	0.0081	0.0063	20.1	23.1	2 x 3⅝	400R124U010BJ8	BJ
120000	0.0110	0.0091	11.6	12.7	2 x 3⅝	400124U010BJ8	BJ
120000	0.0079	0.0059	19.3	22.8	1¾ x 4⅛	400R124U010EC8	EC
120000	0.0100	0.0081	11.6	12.9	1¾ x 4⅛	400X124U010EC8	EC
150000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400X154U010BH8	BH
150000	0.0100	0.0082	12.3	13.3	2 x 4⅛	400154U010BC8	BC
150000	0.0072	0.0056	21.3	24.2	2 x 4⅛	400R154U010BC8	BC
180000	0.0130	0.0100	10.7	11.8	2 x 3⅛	400X184U010BB8	BB
180000	0.0090	0.0076	12.9	14.0	2 x 4⅝	400184U010BD8	BD
180000	0.0066	0.0052	22.4	25.3	2 x 4⅝	400R184U010BD8	BD
210000	0.0100	0.0081	11.6	12.9	1¾ x 4⅛	400X214U010EC8	EC
220000	0.0110	0.0091	11.6	12.7	2 x 3⅝	400X224U010BJ8	BJ
220000	0.0057	0.0046	23.5	26.1	2 x 5⅝	400R224U010BF8	BF
220000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400224U010BF8	BF
260000	0.0100	0.0082	12.3	13.3	2 x 4⅛	400X264U010BC8	BC
300000	0.0090	0.0076	12.9	14.0	2 x 4⅝	400X304U010BD8	BD
340000	0.0084	0.0071	13.3	14.3	2 x 5⅛	400X344U010BE8	BE
380000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400X384U010BF8	BF
15 Vdc — 20 Vdc Surge							
12000	0.0410	0.0270	6.9	9.4	1⅜ x 1⅝	400R123U015AK8	AK
12000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400123U015AK8	AK
18000	0.0260	0.0170	9.1	12.2	1⅜ x 2⅛	400R183U015AA8	AA
22000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400223U015AA8	AA
23000	0.0440	0.0300	4.5	5.9	1⅜ x 1⅝	400X233U015AK8	AK
27000	0.0200	0.0130	11.0	14.5	1⅜ x 2⅝	400R273U015AH8	AH
27000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400273U015AH8	AH
33000	0.0160	0.0110	12.4	16.3	1⅜ x 3⅛	400R333U015AB8	AB
36000	0.0290	0.0200	6.0	7.6	1⅜ x 2⅛	400X363U015AA8	AA
39000	0.0150	0.0110	13.9	16.4	2 x 2⅛	400R393U015BA8	BA
39000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400393U015AB8	AB
47000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400473U015BA8	BA
47000	0.0120	0.0080	14.6	18.8	1⅜ x 4⅛	400R473U015AC8	AC
50000	0.0220	0.0150	7.2	9.1	1⅜ x 2⅝	400X503U015AH8	AH
56000	0.0110	0.0087	16.5	19.3	2 x 2⅝	400R563U015BH8	BH
56000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400563U015AC8	AC
63000	0.0170	0.0120	8.1	10.1	1⅜ x 3⅛	400X633U015AB8	AB
66000	0.0210	0.0160	7.5	8.7	1¾ x 2⅛	400X663U015EA8	EA
15 Vdc — 20 Vdc Surge							
68000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400683U015BH8	BH
68000	0.0094	0.0072	18.6	21.6	2 x 3⅛	400R683U015BB8	BB
82000	0.0130	0.0110	10.7	11.8	2 x 3⅛	400823U015BB8	BB
82000	0.0081	0.0063	20.1	23.1	2 x 3⅝	400R823U015BJ8	BJ
84000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400X843U015BA8	BA
89000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400X893U015AC8	AC
100000	0.0072	0.0056	21.3	24.2	2 x 4⅛	400R104U015BC8	BC
100000	0.0100	0.0081	11.6	12.9	1¾ x 4⅛	400104U015EC8	EC
120000	0.0150	0.0130	9.5	10.5	2 x 2⅝	400X124U015BH8	BH
120000	0.0100	0.0083	12.3	13.3	2 x 4⅛	400124U015BC8	BC
120000	0.0066	0.0052	22.4	25.2	2 x 4⅝	400R124U015BD8	BD
150000	0.0130	0.0110	10.7	11.8	2 x 3⅛	400X154U015BB8	BB
150000	0.0090	0.0076	12.9	13.9	2 x 4⅝	400154U015BD8	BD
150000	0.0057	0.0046	23.5	26.1	2 x 5⅝	400R154U015BF8	BF
160000	0.0100	0.0081	11.6	12.9	1¾ x 4⅛	400X164U015EC8	EC
180000	0.0110	0.0092	11.6	12.7	2 x 3⅝	400X184U015BJ8	BJ
180000	0.0079	0.0068	13.6	14.5	2 x 5⅝	400184U015BF8	BF
210000	0.0100	0.0083	12.3	13.3	2 x 4⅛	400X214U015BC8	BC
240000	0.0090	0.0076	12.9	13.9	2 x 4⅝	400X244U015BD8	BD
270000	0.0084	0.0072	13.3	14.3	2 x 5⅛	400X274U015BE8	BE
300000	0.0079	0.0068	13.6	14.5	2 x 5⅝	500X304U015BF8	BF
20 Vdc — 25 Vdc Surge							
10000	0.0410	0.0270	6.8	9.3	1⅜ x 1⅝	400R103U020AK8	AK
10000	0.0450	0.0300	4.5	5.8	1⅜ x 1⅝	400103U020AK8	AK
15000	0.0450	0.0300	4.5	5.8	1⅜ x 1⅝	400X153U020AK8	AK
15000	0.0290	0.0200	5.9	7.6	1⅜ x 2⅛	400153U020AA8	AA
15000	0.0270	0.0180	9.0	12.2	1⅜ x 2⅛	400R153U020AA8	AA
22000	0.0220	0.0150	7.1	9.0	1⅜ x 2⅝	400223U020AH8	AH
22000	0.0200	0.0130	10.9	14.6	1⅜ x 2⅝	400R223U020AH8	AH
23000	0.0290	0.0200	5.9	7.6	1⅜ x 2⅛	400X233U020AA8	AA
27000	0.0180	0.0120	8.0	10.1	1⅜ x 3⅛	400273U020AB8	AB
27000	0.0160	0.0110	12.3	16.3	1⅜ x 3⅛	400R273U020AB8	AB
32000	0.0220	0.0150	7.1	9.0	1⅜ x 2⅝	400X323U020AH8	AH
33000	0.0150	0.0110	13.8	16.4	2 x 2⅛	400R333U020BA8	BA
39000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400393U020AC8	AC
39000	0.0120	0.0080	14.5	18.8	1⅜ x 4⅛	400R393U020AC8	AC
40000	0.0180	0.0120	8.0	10.1	1⅜ x 3⅛	400X403U020AB8	AB
47000	0.0120	0.0087	16.4	19.3	2 x 2⅝	400R473U020BH8	BH
47000	0.0160	0.0130	9.5	10.5	2 x 2⅝	400473U020BH8	BH
54000	0.0200	0.0160	8.0	8.9	2 x 2⅛	400X543U020BA8	BA
56000	0.0095	0.0072	18.5	21.6	2 x 3⅛	400R563U020BB8	BB
57000	0.0130	0.0094	9.4	11.5	1⅜ x 4⅛	400X573U020AC8	AC
68000	0.0100	0.0081	11.5	12.9	1¾ x 4⅛	400683U020EC8	EC
68000	0.0080	0.0059	19.3	22.8	1¾ x 4⅛	400R683U020EC8	EC
74000	0.0160	0.0130	9.5	10.5	2 x 2⅝	400X743U020BH8	BH
82000	0.0110	0.0092	11.6	12.7	2 x 3⅝	400823U020BJ8	BJ
82000	0.0072	0.0056	21.2	24.2	2 x 4⅛	400R823U020BC8	BC
82000	0.0100	0.0083	12.3	13.3	2 x 4⅛	400823U020BC8	BC
94000	0.0130	0.0110	10.7	11.8	2 x 3⅛	400X943U020BB8	BB
100000	0.0066	0.0052	22.3	25.2	2 x 4⅝	400R104U020BD8	BD
100000	0.0090	0.0076	12.9	13.9	2 x 4⅝	400104U020BD8	BD
100000	0.0100	0.0081	11.5	12.9	1¾ x 4⅛	400X104U020EC8	EC
110000	0.0110	0.0092	11.6	12.7	2 x 3⅝	400X114U020BJ8	BJ
120000	0.0084	0.0072	13.2	14.2	2 x 5⅛	400124U020BE8	BE
120000	0.0061	0.0049	22.9	25.7	2 x 5⅛	400R124U020BE8	BE
130000	0.0100	0.0083	12.3	13.3	2 x 4⅛	400X134U020BC8	BC
150000	0.0090	0.0076	12.9	13.9	2 x 4⅝	400X154U020BD8	BD
170000	0.0084	0.0072	13.2	14.2	2 x 5⅛	400X174U020BE8	BE
190000	0.0079	0.0068	13.5	14.5	2 x 5⅝	400X194U020BF8	BF
25 Vdc — 35 Vdc Surge							
8200	0.0430	0.0270	6.6	9.3	1⅜ x 1⅝	400R822U025AK8	AK
8200	0.0470	0.0310	4.4	5.8	1⅜ x 1⅝	400822U025AK8	AK
12000	0.0470	0.0310	4.4	5.8	1⅜ x 1⅝	400X123U025AK8	AK
12000	0.0300	0.0200	5.8	7.6	1⅜ x 2⅛	400123U025AA8	AA
12000	0.0280	0.0180	8.7	12.1	1⅜ x 2⅛	400R123U025AA8	AA
15000	0.0210	0.0130	10.6	14.5	1⅜ x 2⅝	400R153U025AH8	AH
18000	0.0230	0.0150	6.9	9.0	1⅜ x 2⅝	400183U025AH8	AH
19000	0.0300	0.0200	5.8	7.6	1⅜ x 2⅛	400X193U025AA8	AA
22000	0.0180	0.0120	7.8	10.0	1⅜ x 3⅛	400223U025AB8	AB
22000	0.0170	0.0110	12.0	16.2	1⅜ x 3⅛	400R223U025AB8	AB
26000	0.0230	0.0150	6.9	9.0	1⅜ x 2⅝	400X263U025AH8	AH
27000	0.0210	0.0170	7.9	8.9	2 x 2⅛	400273U025BA8	BA
27000	0.0120	0.0081	14.1	18.6	1⅜ x 4⅛	400R273U025AC8	AC

• MA (508) 996-8561
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Cornell Dubilier

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85ºC 120Hz	Ripple amps @85ºC 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
25 Vdc — 35 Vdc Surge							
33000	0.0140	0.0100	9.2	11.4	1⅜ x 4⅛	400333U025AC8	AC
34000	0.0180	0.0120	7.8	10.0	1⅜ x 3⅛	400X343U025AB8	AB
35000	0.0220	0.0160	7.4	8.7	1¾ x 2⅛	400X353U025EA8	EA
39000	0.0160	0.0130	9.4	10.5	2 x 2⅝	400393U025BH8	BH
39000	0.0120	0.0087	16.1	19.3	2 x 2⅝	400R393U025BH8	BH
45000	0.0210	0.0170	7.9	8.9	2 x 2⅛	400X453U025BA8	BA
47000	0.0100	0.0073	18.2	21.5	2 x 3⅛	400R473U025BB8	BB
47000	0.0130	0.0110	10.6	11.8	2 x 3⅛	400473U025BB8	BB
48000	0.0140	0.0100	9.2	11.4	1⅜ x 4⅛	400X483U025AC8	AC
56000	0.0110	0.0092	11.4	12.6	2 x 3⅝	400563U025BJ8	BJ
56000	0.0100	0.0081	11.4	12.9	1¾ x 4⅛	400563U025EC8	EC
56000	0.0083	0.0060	18.9	22.7	1¾ x 4⅛	400R563U025EC8	EC
61000	0.0160	0.0130	9.4	10.5	2 x 2⅝	400X613U025BH8	BH
68000	0.0075	0.0057	20.8	24.1	2 x 4⅛	400R683U025BC8	BC
68000	0.0100	0.0083	12.1	13.3	2 x 4⅛	400683U025BC8	BC
78000	0.0130	0.0110	10.6	11.8	2 x 3⅛	400X783U025BB8	BB
82000	0.0092	0.0076	12.7	13.9	2 x 4⅝	400823U025BD8	BD
82000	0.0068	0.0052	21.9	25.2	2 x 4⅝	400R823U025BD8	BD
87000	0.0100	0.0081	11.4	12.9	1¾ x 4⅛	400X873U025EC8	EC
94000	0.0110	0.0092	11.4	12.6	2 x 3⅝	400X943U025BJ8	BJ
100000	0.0086	0.0072	13.1	14.2	2 x 5⅛	400104U025BE8	BE
100000	0.0059	0.0047	23.1	26.0	2 x 5⅝	400R104U025BF8	BF
110000	0.0100	0.0083	12.1	13.3	2 x 4⅛	400X114U025BC8	BC
130000	0.0092	0.0076	12.7	13.9	2 x 4⅝	400X134U025BD8	BD
140000	0.0086	0.0072	13.1	14.2	2 x 5⅛	400X144U025BE8	BE
160000	0.0081	0.0068	13.4	14.5	2 x 5⅝	400X164U025BF8	BF
30 Vdc — 40 Vdc Surge							
6800	0.0430	0.0270	6.5	8.9	1⅜ x 1⅝	400R682U030AK8	AK
6800	0.0480	0.0320	4.2	5.4	1⅜ x 1⅝	400682U030AK8	AK
10000	0.0280	0.0180	8.6	11.7	1⅜ x 2⅛	400R103U030AA8	AA
11000	0.0480	0.0320	4.2	5.4	1⅜ x 1⅝	400X113U030AK8	AK
12000	0.0310	0.0210	5.6	7.1	1⅜ x 2⅛	400123U030AA8	AA
15000	0.0230	0.0160	6.7	8.4	1⅜ x 2⅝	400153U030AH8	AH
15000	0.0210	0.0130	10.4	14.0	1⅜ x 2⅝	400R153U030AH8	AH
17000	0.0310	0.0210	5.6	7.1	1⅜ x 2⅛	400X173U030AA8	AA
18000	0.0190	0.0130	7.6	9.4	1⅜ x 3⅛	400183U030AB8	AB
18000	0.0170	0.0110	11.8	15.7	1⅜ x 3⅛	400R183U030AB8	AB
22000	0.0170	0.0130	12.6	14.7	2 x 2⅛	400R223U030BA8	BA
22000	0.0250	0.0190	6.8	7.7	1¾ x 2⅛	400223U030EA8	EA
23000	0.0230	0.0160	6.7	8.4	1⅜ x 2⅝	400X233U030AH8	AH
27000	0.0120	0.0081	14.0	18.1	1⅜ x 4⅛	400R273U030AC8	AC
27000	0.0140	0.0100	8.9	10.8	1⅜ x 4⅛	400273U030AC8	AC
29000	0.0190	0.0130	7.6	9.4	1⅜ x 3⅛	400X293U030AB8	AB
31000	0.0250	0.0190	6.8	7.7	1¾ x 2⅛	400X313U030EA8	EA
33000	0.0190	0.0150	8.4	9.2	2 x 2⅝	400333U030BH8	BH
33000	0.0130	0.0100	15.1	12.3	2 x 2⅝	400R333U030BH8	BH
39000	0.0250	0.0200	7.0	7.7	2 x 2⅛	400X393U030BA8	BA
39000	0.0110	0.0081	17.0	19.6	2 x 3⅛	400R393U030BB8	BB
42000	0.0140	0.0100	8.9	10.8	1⅜ x 4⅛	400X423U030AC8	AC
47000	0.0120	0.0093	10.6	11.7	1¾ x 4⅛	400473U030EC8	EC
47000	0.0086	0.0064	18.1	21.3	1¾ x 4⅛	400R473U030EC8	EC
54000	0.0190	0.0160	8.4	9.2	2 x 2⅝	400X543U030BH8	BH
56000	0.0130	0.0110	10.4	11.2	2 x 3⅝	400563U030BJ8	BJ
56000	0.0080	0.0063	19.7	22.3	2 x 4⅛	400R563U030BC8	BC
68000	0.0150	0.0130	9.5	10.4	2 x 3⅛	400X683U030BB8	BB
68000	0.0120	0.0100	11.1	11.9	2 x 4⅛	400683U030BC8	BC
68000	0.0073	0.0058	20.8	23.3	2 x 4⅝	400R683U030BD8	BD
76000	0.0120	0.0093	10.6	11.7	1¾ x 4⅛	400X763U030EC8	EC
82000	0.0130	0.0110	10.4	11.2	2 x 3⅝	400X823U030BJ8	BJ
82000	0.0067	0.0054	21.4	23.9	2 x 5⅛	400R823U030BE8	BE
82000	0.0100	0.0084	12.1	12.9	2 x 5⅛	400823U030BE8	BE
97000	0.0120	0.0100	11.0	11.9	2 x 4⅛	400X973U030BC8	BC
100000	0.0091	0.0079	12.4	13.2	2 x 5⅝	400104U030BF8	BF
110000	0.0110	0.0090	11.7	12.5	2 x 4⅝	400X114U030BD8	BD
130000	0.0100	0.0084	12.1	12.9	2 x 5⅛	400X134U030BE8	BE
140000	0.0091	0.0079	12.4	13.2	2 x 5⅝	400X144U030BF8	BF
40 Vdc — 55 Vdc Surge							
4700	0.0430	0.0280	6.5	8.9	1⅜ x 1⅝	400R472U040AK8	AK
5600	0.0480	0.0330	4.2	5.4	1⅜ x 1⅝	400562U040AK8	AK
7200	0.0480	0.0330	4.2	5.4	1⅜ x 1⅝	400X722U040AK8	AK
8200	0.0310	0.0210	5.5	7.0	1⅜ x 2⅛	400822U040AA8	AA
8200	0.0280	0.0180	8.6	11.6	1⅜ x 2⅛	400R822U040AA8	AA
10000	0.0210	0.0140	10.4	13.9	1⅜ x 2⅝	400R103U040AH8	AH

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85ºC 120Hz	Ripple amps @85ºC 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
40 Vdc — 55 Vdc Surge							
11000	0.0310	0.0210	5.6	7.0	1⅜ x 2⅛	400X113U040AA8	AA
12000	0.0230	0.0160	6.7	8.4	1⅜ x 2⅝	400123U040AH8	AH
12000	0.0170	0.0110	11.8	15.6	1⅜ x 3⅛	400R123U040AB8	AB
15000	0.0230	0.0160	6.7	8.4	1⅜ x 2⅝	400X153U040AH8	AH
15000	0.0190	0.0130	7.6	9.4	1⅜ x 3⅛	400153U040AB8	AB
18000	0.0250	0.0200	7.0	7.7	2 x 2⅛	400183U040BA8	BA
18000	0.0170	0.0130	12.6	14.7	2 x 2⅛	400R183U040BA8	BA
19000	0.0190	0.0130	7.6	9.4	1⅜ x 3⅛	400X193U040AB8	AB
20000	0.0250	0.0190	6.7	7.6	1¾ x 2⅛	400X203U040EA8	EA
22000	0.0130	0.0100	15.0	17.4	2 x 2⅝	400R223U040BH8	BH
22000	0.0140	0.0100	8.9	10.8	1⅜ x 4⅛	400223U040AC8	AC
26000	0.0250	0.0200	7.0	7.7	2 x 2⅛	400X263U040BA8	BA
27000	0.0190	0.0160	8.4	9.2	2 x 2⅝	400273U040BH8	BH
27000	0.0110	0.0082	17.0	19.5	2 x 3⅛	400R273U040BB8	BB
28000	0.0140	0.0100	8.9	10.8	1⅜ x 4⅛	400X283U040AC8	AC
33000	0.0150	0.0130	9.5	10.4	2 x 3⅛	400333U040BB8	BB
33000	0.0087	0.0065	18.0	21.2	1¾ x 4⅛	400R333U040EC8	EC
36000	0.0190	0.0160	8.4	9.2	2 x 2⅝	400X363U040BH8	BH
39000	0.0091	0.0071	18.4	21.0	2 x 3⅝	400R393U040BJ8	BJ
39000	0.0130	0.0110	10.4	11.2	2 x 3⅝	400393U040BJ8	BJ
45000	0.0150	0.0130	9.5	10.3	2 x 3⅛	400X453U040BB8	BB
47000	0.0120	0.0100	11.0	11.9	2 x 4⅛	400473U040BC8	BC
47000	0.0073	0.0058	20.7	23.3	2 x 4⅝	400R473U040BD8	BD
50000	0.0120	0.0093	10.5	11.7	1¾ x 4⅛	400X503U040EC8	EC
55000	0.0130	0.0110	10.3	11.2	2 x 3⅝	400X553U040BJ8	BJ
56000	0.0110	0.0090	11.7	12.5	2 x 4⅝	400563U040BD8	BD
56000	0.0068	0.0054	21.4	23.8	2 x 5⅛	400R563U040BE8	BE
64000	0.0120	0.0100	11.0	11.9	2 x 4⅛	400X643U040BC8	BC
68000	0.0092	0.0079	12.4	13.2	2 x 5⅝	400683U040BF8	BF
74000	0.0110	0.0091	11.7	12.5	2 x 4⅝	400X743U040BD8	BD
83000	0.0100	0.0084	12.0	12.9	2 x 5⅛	400X833U040BE8	BE
93000	0.0092	0.0080	12.4	13.2	2 x 5⅝	400X933U040BF8	BF
50 Vdc — 70 Vdc Surge							
3300	0.0440	0.0280	6.4	8.7	1⅜ x 1⅝	400R332U050AK8	AK
3900	0.0490	0.0330	4.1	5.3	1⅜ x 1⅝	400392U050AK8	AK
5300	0.0490	0.0330	4.2	5.3	1⅜ x 1⅝	400X532U050AK8	AK
5600	0.0290	0.0180	8.5	11.4	1⅜ x 2⅛	400R562U050AA8	AA
6800	0.0320	0.0220	5.5	6.9	1⅜ x 2⅛	400682U050AA8	AA
8200	0.0210	0.0140	10.2	13.7	1⅜ x 2⅝	400R822U050AH8	AH
8200	0.0240	0.0160	6.6	8.3	1⅜ x 2⅝	400822U050AH8	AH
8400	0.0320	0.0220	5.5	6.9	1⅜ x 2⅛	400X842U050AA8	AA
10000	0.0190	0.0130	7.5	9.3	1⅜ x 3⅛	400103U050AB8	AB
10000	0.0170	0.0110	11.6	15.4	1⅜ x 3⅛	400R103U050AB8	AB
11000	0.0240	0.0160	6.6	8.3	1⅜ x 2⅝	400X113U050AH8	AH
12000	0.0250	0.0200	6.7	7.6	1¾ x 2⅛	400123U050EA8	EA
12000	0.0130	0.0083	13.7	17.8	1⅜ x 4⅛	400R123U050AC8	AC
14000	0.0190	0.0130	7.5	9.3	1⅜ x 3⅛	400X143U050AB8	AB
15000	0.0250	0.0210	7.0	7.7	2 x 2⅛	400153U050BA8	BA
15000	0.0250	0.0200	6.7	7.6	1¾ x 2⅛	400X153U050EA8	EA
15000	0.0140	0.0100	8.8	10.7	1⅜ x 4⅛	400153U050AC8	AC
18000	0.0190	0.0160	8.4	9.2	2 x 2⅝	400183U050BH8	BH
18000	0.0130	0.0100	14.9	17.3	2 x 2⅝	400R183U050BH8	BH
19000	0.0250	0.0210	7.0	7.7	2 x 2⅛	400X193U050BA8	BA
21000	0.0140	0.0100	8.8	10.7	1⅜ x 4⅛	400X213U050AC8	AC
22000	0.0110	0.0083	16.8	19.4	2 x 3⅛	400R223U050BB8	BB
22000	0.0088	0.0065	17.9	21.1	1¾ x 4⅛	400R223U050EC8	EC
27000	0.0190	0.0160	8.4	9.1	2 x 2⅝	400X273U050BH8	BH
27000	0.0150	0.0130	9.5	10.3	2 x 3⅛	400273U050BB8	BB
27000	0.0093	0.0072	18.3	20.9	2 x 3⅝	400R273U050BJ8	BJ
33000	0.0130	0.0110	10.3	11.2	2 x 3⅝	400333U050BJ8	BJ
33000	0.0082	0.0064	19.5	22.1	2 x 4⅛	400R333U050BC8	BC
34000	0.0150	0.0130	9.5	10.3	2 x 3⅛	400X343U050BB8	BB
37000	0.0120	0.0094	10.5	11.6	1¾ x 4⅛	400X373U050EC8	EC
39000	0.0120	0.0100	11.0	11.9	2 x 4⅛	400393U050BC8	BC
39000	0.0074	0.0059	20.6	23.2	2 x 4⅝	400R393U050BD8	BD
41000	0.0130	0.0110	10.3	11.1	2 x 3⅝	400X413U050BJ8	BJ
47000	0.0100	0.0085	12.0	12.9	2 x 5⅛	400473U050BE8	BE
47000	0.0064	0.0052	21.8	24.2	2 x 5⅝	400R473U050BF8	BF
48000	0.0120	0.0100	11.0	11.8	2 x 4⅛	400X483U050BC8	BC
55000	0.0110	0.0091	11.6	12.5	2 x 4⅝	400X553U050BD8	BD
56000	0.0092	0.0080	12.3	13.2	2 x 5⅝	400563U050BF8	BF
62000	0.0100	0.0085	12.0	12.8	2 x 5⅛	400X623U050BE8	BE
69000	0.0092	0.0080	12.3	13.2	2 x 5⅝	400X693U050BF8	BF

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
63 Vdc — 90 Vdc Surge							
2700	0.0500	0.0340	4.1	5.2	1⅜ x 1⅝	400272U063AK8	AK
2700	0.0450	0.0290	6.3	8.6	1⅜ x 1⅝	400R272U063AK8	AK
3200	0.0500	0.0340	4.1	5.3	1⅜ x 1⅝	400X322U063AK8	AK
3900	0.0290	0.0190	8.3	11.3	1⅜ x 2⅛	400R392U063AA8	AA
4700	0.0330	0.0220	5.4	6.9	1⅜ x 2⅛	400472U063AA8	AA
5000	0.0320	0.0220	5.4	6.9	1⅜ x 2⅛	400X502U063AA8	AA
5600	0.0220	0.0140	10.1	13.5	1⅜ x 2⅝	400R562U063AH8	AH
5600	0.0240	0.0170	6.5	8.2	1⅜ x 2⅝	400562U063AH8	AH
6800	0.0240	0.0170	6.5	8.2	1⅜ x 2⅝	400X682U063AH8	AH
6800	0.0180	0.0110	11.5	15.2	1⅜ x 3⅛	400R682U063AB8	AB
6800	0.0200	0.0140	7.4	9.2	1⅜ x 3⅛	400682U063AB8	AB
8200	0.0260	0.0200	6.6	7.6	1¾ x 2⅛	400822U063EA8	EA
8600	0.0200	0.0140	7.4	9.2	1⅜ x 3⅛	400X862U063AB8	AB
9100	0.0260	0.0200	6.6	7.6	1¾ x 2⅛	400X912U063EA8	EA
10000	0.0250	0.0210	7.0	7.7	2 x 2⅛	400103U063BA8	BA
10000	0.0180	0.0130	12.4	14.5	2 x 2⅛	400R103U063BA8	BA
10000	0.0130	0.0085	13.6	17.6	1⅜ x 4⅛	400R103U063AC8	AC
10000	0.0150	0.0100	8.7	10.6	1⅜ x 4⅛	400103U063AC8	AC
12000	0.0250	0.0210	7.0	7.6	2 x 2⅛	400X123U063BA8	BA
12000	0.0190	0.0160	8.3	9.1	2 x 2⅝	400123U063BH8	BH
12000	0.0140	0.0100	14.8	17.2	2 x 2⅝	400R123U063BH8	BH
15000	0.0110	0.0084	16.7	19.3	2 x 3⅛	400R153U063BB8	BB
16000	0.0190	0.0160	8.3	9.1	2 x 2⅝	400X163U063BH8	BH
18000	0.0120	0.0100	10.4	11.6	1¾ x 4⅛	400183U063EC8	EC
18000	0.0090	0.0066	17.7	20.9	1¾ x 4⅛	400R183U063EC8	EC
20000	0.0160	0.0130	9.4	10.3	2 x 3⅛	400X203U063BB8	BB
22000	0.0130	0.0110	10.3	11.1	2 x 3⅝	400223U063BJ8	BJ
22000	0.0083	0.0065	19.3	22.0	2 x 4⅛	400R223U063BC8	BC
22000	0.0120	0.0100	10.4	11.6	1¾ x 4⅛	400X223U063EC8	EC
24000	0.0130	0.0110	10.2	11.1	2 x 3⅝	400X243U063BJ8	BJ
27000	0.0075	0.0059	20.4	23.0	2 x 4⅝	400R273U063BD8	BD
27000	0.0110	0.0091	11.6	12.5	2 x 4⅝	400273U063BD8	BD
28000	0.0120	0.0100	10.9	11.8	2 x 4⅛	400X283U063BC8	BC
33000	0.0110	0.0092	11.6	12.4	2 x 4⅝	400X333U063BD8	BD
33000	0.0100	0.0085	12.0	12.8	2 x 5⅛	400333U063BE8	BE
33000	0.0065	0.0052	21.7	24.1	2 x 5⅝	400R333U063BF8	BF
37000	0.0100	0.0085	11.9	12.8	2 x 5⅛	400X373U063BE8	BE
41000	0.0093	0.0080	12.3	13.1	2 x 5⅝	400X413U063BF8	BF
75 Vdc — 100 Vdc Surge							
2200	0.0570	0.0400	5.8	7.6	1⅜ x 1⅝	400R222U075AK8	AK
2200	0.0620	0.0450	3.8	4.8	1⅜ x 1⅝	400222U075AK8	AK
2600	0.0620	0.0450	3.8	4.8	1⅜ x 1⅝	400X262U075AK8	AK
3300	0.0370	0.0260	7.7	10.0	1⅜ x 2⅛	400R332U075AA8	AA
3300	0.0400	0.0290	5.1	6.3	1⅜ x 2⅛	400332U075AA8	AA
4100	0.0400	0.0290	5.1	6.3	1⅜ x 2⅛	400X412U075AA8	AA
4700	0.0270	0.0190	9.3	12.0	1⅜ x 2⅝	400R472U075AH8	AH
4700	0.0300	0.0220	6.1	7.5	1⅜ x 2⅝	400472U075AH8	AH
5500	0.0300	0.0220	6.1	7.5	1⅜ x 2⅝	400X552U075AH8	AH
5600	0.0240	0.0180	6.9	8.5	1⅜ x 3⅛	400562U075AB8	AB
5600	0.0220	0.0150	10.6	13.5	1⅜ x 3⅛	400R562U075AB8	AB
6800	0.0210	0.0160	11.8	13.7	2 x 2⅛	400R682U075BA8	BA
7000	0.0240	0.0180	6.9	8.5	1⅜ x 3⅛	400X702U075AB8	AB
7400	0.0290	0.0230	6.4	7.3	1¾ x 2⅛	400X742U075EA8	EA
8200	0.0280	0.0230	6.8	7.5	2 x 2⅛	400822U075BA8	BA
8200	0.0180	0.0130	8.2	9.8	1⅜ x 4⅛	400822U075AC8	AC
8200	0.0160	0.0110	12.6	15.8	1⅜ x 4⅛	400R822U075AC8	AC
8500	0.0200	0.0150	7.6	9.2	1⅜ x 3⅝	400X852U075AJ8	AJ
9400	0.0280	0.0230	6.8	7.5	2 x 2⅛	400X942U075BA8	BA
9900	0.0180	0.0130	8.2	9.8	1⅜ x 4⅛	400X992U075AC8	AC
10000	0.0160	0.0120	14.2	16.3	2 x 2⅝	400R103U075BH8	BH
10000	0.0210	0.0180	8.2	8.9	2 x 2⅝	400103U075BH8	BH
12000	0.0170	0.0140	9.3	10.1	2 x 3⅛	400123U075BB8	BB
12000	0.0130	0.0100	16.1	18.4	2 x 3⅛	400R123U075BB8	BB
13000	0.0210	0.0180	8.2	8.9	2 x 2⅝	400X133U075BH8	BH
15000	0.0130	0.0110	10.1	11.2	1¾ x 4⅛	400153U075EC8	EC
15000	0.0110	0.0081	16.9	19.7	1¾ x 4⅛	400R153U075EC8	EC
16000	0.0170	0.0140	9.3	10.1	2 x 3⅛	400X163U075BB8	BB
18000	0.0130	0.0110	10.8	11.6	2 x 4⅛	400183U075BC8	BC
18000	0.0100	0.0076	18.7	21.1	2 x 4⅛	400R183U075BC8	BC
18000	0.0130	0.0110	10.1	11.2	1¾ x 4⅛	400X183U075EC8	EC
20000	0.0150	0.0120	10.1	10.9	2 x 3⅝	400X203U075BJ8	BJ
22000	0.0086	0.0069	19.7	22.2	2 x 4⅝	400R223U075BD8	BD
22000	0.0120	0.0100	11.4	12.3	2 x 4⅝	400223U075BD8	BD

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
75 Vdc — 100 Vdc Surge							
23000	0.0130	0.0110	10.8	11.6	2 x 4⅛	400X233U075BC8	BC
26000	0.0120	0.0100	11.4	12.3	2 x 4⅝	400X263U075BD8	BD
27000	0.0110	0.0093	11.8	12.6	2 x 5⅛	400273U075BE8	BE
27000	0.0074	0.0060	21.0	23.3	2 x 5⅝	400R273U075BF8	BF
30000	0.0110	0.0093	11.8	12.6	2 x 5⅛	400X303U075BE8	BE
33000	0.0100	0.0088	12.1	13.0	2 x 5⅝	400X333U075BF8	BF
100 Vdc — 135 Vdc Surge							
1000	0.0600	0.0410	5.6	7.4	1⅜ x 1⅝	400R102U100AK8	AK
1000	0.0650	0.0460	3.7	4.7	1⅜ x 1⅝	400102U100AK8	AK
1500	0.0390	0.0270	7.5	9.7	1⅜ x 2⅛	400R152U100AA8	AA
1500	0.0420	0.0300	4.9	6.2	1⅜ x 2⅛	400152U100AA8	AA
1600	0.0650	0.0460	3.7	4.7	1⅜ x 1⅝	400X162U100AK8	AK
1800	0.0290	0.0200	9.0	11.7	1⅜ x 2⅝	400R182U100AH8	AH
2200	0.0310	0.0220	6.0	7.4	1⅜ x 2⅝	400222U100AH8	AH
2400	0.0420	0.0300	4.9	6.2	1⅜ x 2⅛	400X242U100AA8	AA
2700	0.0250	0.0180	6.8	8.3	1⅜ x 3⅛	400272U100AB8	AB
2700	0.0230	0.0160	10.3	13.2	1⅜ x 3⅛	400R272U100AB8	AB
3300	0.0220	0.0170	11.6	13.6	2 x 2⅛	400R332U100BA8	BA
3300	0.0310	0.0220	6.0	7.4	1⅜ x 2⅝	400X332U100AH8	AH
3900	0.0180	0.0130	8.0	9.7	1⅜ x 4⅛	400392U100AC8	AC
3900	0.0170	0.0120	12.3	15.5	1⅜ x 4⅛	400R392U100AC8	AC
4200	0.0250	0.0180	6.8	8.3	1⅜ x 3⅛	400X422U100AB8	AB
4400	0.0300	0.0240	6.3	7.2	1¾ x 2⅛	400X442U100EA8	EA
4700	0.0160	0.0130	13.9	16.2	2 x 2⅝	400R472U100BH8	BH
4700	0.0220	0.0180	8.1	8.9	2 x 2⅝	400472U100BH8	BH
5100	0.0210	0.0150	7.4	9.1	1⅜ x 3⅝	400X512U100AJ8	AJ
5600	0.0290	0.0240	6.7	7.4	2 x 2⅛	400X562U100BA8	BA
5600	0.0130	0.0100	15.8	18.2	2 x 3⅛	400R562U100BB8	BB
6000	0.0180	0.0130	8.0	9.7	1⅜ x 4⅛	400X602U100AC8	AC
6800	0.0180	0.0150	9.2	10.0	2 x 3⅛	400682U100BB8	BB
6800	0.0110	0.0088	17.2	19.7	2 x 3⅝	400R682U100BJ8	BJ
6800	0.0140	0.0110	10.0	11.2	1¾ x 4⅛	400682U100EC8	EC
7700	0.0220	0.0180	8.1	8.9	2 x 2⅝	400X772U100BH8	BH
8200	0.0150	0.0130	9.9	10.9	2 x 3⅝	400822U100BJ8	BJ
8200	0.0100	0.0078	18.3	20.9	2 x 4⅛	400R822U100BC8	BC
9800	0.0180	0.0150	9.2	10.0	2 x 3⅛	400X982U100BB8	BB
10000	0.0120	0.0100	11.3	12.2	2 x 4⅝	400103U100BD8	BD
10000	0.0089	0.0071	19.4	22.0	2 x 4⅝	400R103U100BD8	BD
10000	0.0081	0.0065	20.1	22.6	2 x 5⅛	400R103U100BE8	BE
11000	0.0140	0.0110	10.0	11.2	1¾ x 4⅛	400X113U100EC8	EC
12000	0.0150	0.0130	9.9	10.9	2 x 3⅝	400X123U100BJ8	BJ
12000	0.0110	0.0094	11.6	12.6	2 x 5⅛	400123U100BE8	BE
12000	0.0076	0.0061	20.7	23.1	2 x 5⅝	400R123U100BF8	BF
14000	0.0130	0.0110	10.6	11.6	2 x 4⅛	400X143U100BC8	BC
16000	0.0120	0.0100	11.3	12.2	2 x 4⅝	400X163U100BD8	BD
18000	0.0110	0.0094	11.6	12.6	2 x 5⅛	400X183U100BE8	BE
20000	0.0100	0.0089	12.0	12.9	2 x 5⅝	400X203U100BF8	BF
150 Vdc — 200 Vdc Surge							
470	0.1400	0.1000	2.5	3.2	1⅜ x 1⅝	400471U150AK8	AK
560	0.1400	0.0990	3.7	4.7	1⅜ x 1⅝	400R561U150AK8	AK
590	0.1400	0.1000	2.5	3.2	1⅜ x 1⅝	400X591U150AK8	AK
680	0.0920	0.0660	3.4	4.2	1⅜ x 2⅛	400681U150AA8	AA
820	0.0890	0.0630	4.9	6.2	1⅜ x 2⅛	400R821U150AA8	AA
930	0.0920	0.0660	3.4	4.2	1⅜ x 2⅛	400X931U150AA8	AA
1000	0.0680	0.0490	4.1	5.1	1⅜ x 2⅝	400102U150AH8	AH
1200	0.0650	0.0470	6.0	7.5	1⅜ x 2⅝	400R122U150AH8	AH
1200	0.0540	0.0390	4.7	5.8	1⅜ x 3⅛	400122U150AB8	AB
1300	0.0680	0.0490	4.1	5.1	1⅜ x 2⅝	400X132U150AH8	AH
1500	0.0520	0.0380	7.3	9.0	1¾ x 2⅛	400R152U150EA8	EA
1500	0.0450	0.0330	5.2	6.4	1⅜ x 3⅝	400152U150AJ8	AJ
1600	0.0540	0.0390	4.7	5.8	1⅜ x 3⅛	400X162U150AB8	AB
1700	0.0570	0.0430	4.8	5.7	1¾ x 2⅛	400X172U150EA8	EA
1800	0.0490	0.0390	5.4	6.3	2 x 2⅛	400182U150BA8	BA
1800	0.0430	0.0320	8.6	10.3	2 x 2⅛	400R182U150BA8	BA
2200	0.0490	0.0390	5.4	6.3	2 x 2⅛	400X222U150BA8	BA
2200	0.0370	0.0290	6.5	7.5	2 x 2⅝	400222U150BH8	BH
2200	0.0370	0.0270	8.3	10.3	1⅜ x 4⅛	400R222U150AC8	AC
2300	0.0390	0.0280	5.6	6.9	1⅜ x 4⅛	400X232U150AC8	AC
2700	0.0320	0.0240	10.3	12.4	2 x 2⅝	400R272U150BH8	BH
2700	0.0300	0.0230	7.5	8.6	2 x 3⅛	400272U150BB8	BB
2900	0.0370	0.0290	6.5	7.5	2 x 2⅝	400X292U150BH8	BH
3300	0.0260	0.0190	11.8	14.1	2 x 3⅛	400R332U150BB8	BB

• MA (508) 996-8561
• SC (803) 878-6311
Cornell Dubilier

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz, 20kHz	Ripple amps @85°C	Nominal Case Size D x L (inches)	Catalog Number	Case Code
150 Vdc — 200 Vdc Surge							
3300	0.0250	0.0190	7.8	9.1	1¾ x 4⅛	400332U150EC8	EC
3700	0.0300	0.0230	7.5	8.6	2 x 3⅛	400X372U150BB8	BB
3900	0.0210	0.0160	13.0	15.4	2 x 3⅝	400R392U150BJ8	BJ
3900	0.0220	0.0170	8.8	10.0	2 x 4⅛	400392U150BC8	BC
4100	0.0250	0.0190	7.8	9.1	1¾ x 4⅛	400X412U150EC8	EC
4500	0.0250	0.0200	8.2	9.3	2 x 3⅝	400X452U150BJ8	BJ
4700	0.0190	0.0140	14.0	16.5	2 x 4⅛	400R472U150BC8	BC
4700	0.0190	0.0150	9.4	10.6	2 x 4⅝	400472U150BD8	BD
5300	0.0220	0.0170	8.8	10.0	2 x 4⅛	400X532U150BC8	BC
5600	0.0160	0.0130	15.0	17.6	2 x 4⅝	400R562U150BD8	BD
5600	0.0180	0.0140	9.8	11.0	2 x 5⅛	400562U150BE8	BE
6100	0.0190	0.0150	9.4	10.6	2 x 4⅝	400X612U150BD8	BD
6800	0.0150	0.0110	15.6	18.3	2 x 5⅛	400R682U150BE8	BE
6800	0.0180	0.0140	9.8	11.0	2 x 5⅛	400X682U150BE8	BE
6800	0.0140	0.0100	16.3	18.9	2 x 5⅝	400R682U150BF8	BF
7600	0.0160	0.0130	10.2	11.4	2 x 5⅝	400X762U150BF8	BF
200 Vdc — 250 Vdc Surge							
270	0.2500	0.1500	2.6	3.7	1⅜ x 1⅝	400R271U200AK8	AK
270	0.2500	0.1500	1.8	2.5	1⅜ x 1⅝	400271U200AK8	AK
390	0.2200	0.1400	1.9	2.6	1⅜ x 1⅝	400X391U200AK8	AK
390	0.1500	0.0920	2.5	3.5	1⅜ x 2⅛	400391U200AA8	AA
470	0.1500	0.0890	3.6	5.1	1⅜ x 2⅛	400R471U200AA8	AA
560	0.1100	0.0660	3.1	4.3	1⅜ x 2⅝	400561U200AH8	AH
650	0.1300	0.0840	2.7	3.5	1⅜ x 2⅛	400X651U200AA8	AA
680	0.1100	0.0640	4.5	6.3	1⅜ x 2⅝	400R681U200AH8	AH
820	0.0840	0.0500	5.2	7.2	1⅜ x 3⅛	400R821U200AB8	AB
820	0.0850	0.0520	3.6	4.9	1⅜ x 3⅛	400821U200AB8	AB
920	0.0970	0.0610	3.3	4.4	1⅜ x 2⅝	400X921U200AH8	AH
1000	0.0760	0.0500	4.4	5.6	2 x 2⅛	400102U200BA8	BA
1000	0.0690	0.0430	6.6	8.8	2 x 2⅛	400R102U200BA8	BA
1000	0.0600	0.0370	4.4	6.0	1⅜ x 4⅛	400102U200AC8	AC
1200	0.0550	0.0360	5.4	6.8	2 x 2⅝	400122U200BH8	BH
1200	0.0760	0.0480	3.8	5.0	1⅜ x 3⅛	400X122U200AB8	AB
1200	0.0580	0.0350	6.4	8.8	1⅜ x 4⅛	400R122U200AC8	AC
1500	0.0780	0.0570	4.1	4.9	2 x 2⅛	400X152U200BA8	BA
1500	0.0500	0.0310	8.1	10.8	2 x 2⅝	400R152U200BH8	BH
1700	0.0530	0.0340	4.6	6.1	1⅜ x 4⅛	400X172U200AC8	AC
1800	0.0430	0.0290	6.2	7.8	2 x 3⅛	400182U200BB8	BB
1800	0.0390	0.0250	9.4	12.4	2 x 3⅛	400R182U200BB8	BB
2100	0.0570	0.0410	5.0	6.0	2 x 2⅝	400X212U200BH8	BH
2200	0.0360	0.0240	6.8	8.6	2 x 3⅝	400222U200BJ8	BJ
2200	0.0320	0.0200	10.4	13.7	2 x 3⅝	400R222U200BJ8	BJ
2700	0.0450	0.0320	5.8	6.9	2 x 3⅛	400X272U200BB8	BB
2700	0.0280	0.0180	11.3	14.7	2 x 4⅛	400R272U200BC8	BC
2700	0.0310	0.0210	7.4	9.2	2 x 4⅛	400272U200BC8	BC
3100	0.0350	0.0250	6.3	7.6	1¾ x 4⅛	400X312U200EC8	EC
3300	0.0370	0.0270	6.5	7.6	2 x 3⅝	400X332U200BJ8	BJ
3300	0.0240	0.0160	12.2	15.8	2 x 4⅝	400R332U200BD8	BD
3300	0.0240	0.0170	8.3	10.3	2 x 5⅛	400332U200BE8	BE
3900	0.0320	0.0230	7.0	8.2	2 x 4⅛	400X392U200BC8	BC
3900	0.0200	0.0130	13.4	17.1	2 x 5⅝	400R392U200BF8	BF
3900	0.0220	0.0150	8.7	10.6	2 x 5⅝	400392U200BF8	BF
4500	0.0280	0.0210	7.5	8.8	2 x 4⅝	400X452U200BD8	BD
5100	0.0250	0.0190	7.9	9.2	2 x 5⅛	400X512U200BE8	BE
5800	0.0230	0.0170	8.3	9.5	2 x 5⅝	400X582U200BF8	BF
250 Vdc — 300 Vdc Surge							
180	0.3000	0.1700	2.4	3.5	1⅜ x 1⅝	400R181U250AK8	AK
180	0.3100	0.1700	1.7	2.4	1⅜ x 1⅝	400181U250AK8	AK
310	0.2400	0.1400	1.8	2.6	1⅜ x 1⅝	400X311U250AK8	AK
330	0.1900	0.1000	2.3	3.3	1⅜ x 2⅛	400331U250AA8	AA
330	0.1800	0.1000	3.3	4.8	1⅜ x 2⅛	400R331U250AA8	AA
470	0.1300	0.0740	2.8	4.1	1⅜ x 2⅝	400471U250AH8	AH
470	0.1300	0.0720	4.0	5.9	1⅜ x 2⅝	400R471U250AH8	AH
510	0.1500	0.0850	2.5	3.5	1⅜ x 2⅛	400X511U250AA8	AA
560	0.1000	0.0580	5.0	7.2	1¾ x 2⅛	400R561U250EA8	EA
560	0.1100	0.0630	3.4	4.8	1¾ x 2⅛	400561U250EA8	EA
680	0.0890	0.0530	4.0	5.4	2 x 2⅛	400681U250BA8	BA
710	0.1100	0.0610	3.1	4.3	1⅜ x 2⅝	400X711U250AH8	AH
820	0.0830	0.0470	6.0	8.4	2 x 2⅛	400R821U250BA8	BA
820	0.0720	0.0410	4.0	5.7	1⅜ x 4⅛	400821U250AC8	AC
820	0.0710	0.0390	5.7	8.3	1⅜ x 4⅛	400R821U250AC8	AC
920	0.0830	0.0480	3.6	5.0	1⅜ x 3⅛	400X921U250AB8	AB

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz, 20kHz	Ripple amps @85°C	Nominal Case Size D x L (inches)	Catalog Number	Case Code
250 Vdc — 300 Vdc Surge							
930	0.0950	0.0610	3.5	4.5	1¾ x 2⅛	400X931U250EA8	EA
1000	0.0600	0.0340	7.4	10.3	2 x 2⅝	400R102U250BH8	BH
1000	0.0640	0.0390	4.9	6.6	2 x 2⅝	400102U250BH8	BH
1200	0.0840	0.0570	4.0	4.8	2 x 2⅛	400X122U250BA8	BA
1200	0.0500	0.0310	5.7	7.6	2 x 3⅛	400122U250BB8	BB
1200	0.0470	0.0270	8.6	11.9	2 x 3⅛	400R122U250BB8	BB
1300	0.0580	0.0340	4.4	6.0	1⅜ x 4⅛	400X132U250AC8	AC
1500	0.0420	0.0260	6.3	8.4	2 x 3⅝	400152U250BJ8	BJ
1500	0.0410	0.0230	8.7	12.2	1¾ x 4⅛	400R152U250EC8	EC
1700	0.0610	0.0410	4.9	5.9	2 x 2⅝	400X172U250BH8	BH
1800	0.0390	0.0220	9.5	13.1	2 x 3⅝	400R182U250BJ8	BJ
1800	0.0360	0.0220	6.9	9.0	2 x 4⅛	400182U250BC8	BC
1800	0.0330	0.0190	10.3	14.2	2 x 4⅛	400R182U250BC8	BC
2100	0.0480	0.0330	5.6	6.8	2 x 3⅛	400X212U250BB8	BB
2200	0.0290	0.0170	11.1	15.2	2 x 4⅝	400R222U250BD8	BD
2200	0.0310	0.0200	7.4	9.6	2 x 4⅝	400222U250BD8	BD
2400	0.0380	0.0250	6.1	7.6	1¾ x 4⅛	400X242U250EC8	EC
2600	0.0400	0.0270	6.2	7.5	2 x 3⅝	400X262U250BJ8	BJ
2700	0.0230	0.0140	12.3	16.5	2 x 5⅝	400R272U250BF8	BF
2700	0.0260	0.0160	8.1	10.4	2 x 5⅝	400272U250BF8	BF
3100	0.0340	0.0240	6.8	8.1	2 x 4⅛	400X312U250BC8	BC
3500	0.0300	0.0210	7.3	8.7	2 x 4⅝	400X352U250BD8	BD
4000	0.0270	0.0190	7.7	9.1	2 x 5⅛	400X402U250BE8	BE
4500	0.0240	0.0170	8.0	9.5	2 x 5⅝	400X452U250BF8	BF
300 Vdc — 350 Vdc Surge							
120	0.8500	0.5700	1.1	1.4	1⅜ x 1⅝	400121U300AK8	AK
120	0.8400	0.5700	1.5	2.0	1⅜ x 1⅝	400R121U300AK8	AK
180	0.5100	0.3400	2.1	2.8	1⅜ x 2⅛	400R181U300AA8	AA
220	0.5100	0.3400	1.5	2.0	1⅜ x 2⅛	400221U300AA8	AA
230	0.4900	0.3400	1.4	1.8	1⅜ x 1⅝	400X231U300AK8	AK
270	0.3600	0.2500	1.8	2.4	1⅜ x 2⅝	400271U300AH8	AH
270	0.3600	0.2400	2.6	3.5	1⅜ x 2⅝	400R271U300AH8	AH
330	0.2800	0.1900	3.3	4.4	1¾ x 2⅛	400R331U300EA8	EA
330	0.2800	0.1900	3.0	4.0	1⅜ x 3⅛	400R331U300AB8	AB
390	0.3000	0.2000	1.9	2.5	1⅜ x 2⅛	400X391U300AA8	AA
390	0.2800	0.1900	2.1	2.8	1⅜ x 3⅛	400391U300AB8	AB
470	0.2300	0.1600	2.8	3.6	2 x 2⅛	400471U300BA8	BA
470	0.2200	0.1500	4.0	5.3	2 x 2⅛	400R471U300BA8	BA
550	0.2100	0.1500	2.4	3.1	1⅜ x 2⅝	400X551U300AH8	AH
560	0.1600	0.1100	4.9	6.5	2 x 2⅝	400R561U300BH8	BH
560	0.2000	0.1300	2.6	3.5	1⅜ x 4⅛	400561U300AC8	AC
680	0.1600	0.1100	3.4	4.4	2 x 2⅝	400681U300BH8	BH
710	0.1800	0.1300	2.8	3.5	1¾ x 2⅛	400X711U300EA8	EA
820	0.1200	0.0850	5.7	7.5	2 x 3⅛	400R821U300BB8	BB
820	0.1300	0.0870	3.9	5.1	2 x 3⅛	400821U300BB8	BB
910	0.1500	0.1100	3.2	4.0	2 x 2⅛	400X911U300BA8	BA
1000	0.1000	0.0690	6.3	8.4	2 x 3⅝	400R102U300BJ8	BJ
1000	0.1000	0.0720	4.4	5.7	2 x 3⅝	400102U300BJ8	BJ
1000	0.1200	0.0800	3.4	4.4	1⅜ x 4⅛	400X102U300AC8	AC
1200	0.0870	0.0590	6.9	9.1	2 x 4⅛	400R122U300BC8	BC
1200	0.0890	0.0610	4.8	6.2	2 x 4⅛	400122U300BC8	BC
1300	0.1100	0.0780	4.0	4.9	2 x 2⅝	400X132U300BH8	BH
1500	0.0770	0.0540	5.2	6.7	2 x 4⅝	400152U300BD8	BD
1500	0.0670	0.0460	7.9	10.4	2 x 5⅛	400R152U300BE8	BE
1600	0.0830	0.0610	4.6	5.6	2 x 3⅛	400X162U300BB8	BB
1800	0.0620	0.0430	5.7	7.4	2 x 5⅝	400182U300BF8	BF
1800	0.0700	0.0500	4.9	6.0	1¾ x 4⅛	400X182U300EC8	EC
2000	0.0690	0.0500	5.1	6.2	2 x 3⅝	400X202U300BJ8	BJ
2400	0.0590	0.0430	5.6	6.8	2 x 4⅛	400X242U300BC8	BC
2700	0.0510	0.0380	6.0	7.3	2 x 4⅝	400X272U300BD8	BD
3100	0.0460	0.0340	6.4	7.6	2 x 5⅛	400X312U300BE8	BE
3400	0.0410	0.0310	6.7	8.0	2 x 5⅝	400X342U300BF8	BF
350 Vdc — 400 Vdc Surge							
100	0.9200	0.5800	1.4	2.0	1⅜ x 1⅝	400R101U350AK8	AK
100	0.9200	0.5900	1.0	1.4	1⅜ x 1⅝	400101U350AK8	AK
180	0.5500	0.3500	2.0	2.8	1⅜ x 2⅛	400R181U350AA8	AA
180	0.5500	0.3500	1.4	1.9	1⅜ x 2⅛	400181U350AA8	AA
200	0.5400	0.3500	1.3	1.8	1⅜ x 1⅝	400X201U350AK8	AK
220	0.4000	0.2500	1.7	2.4	1⅜ x 2⅝	400221U350AH8	AH
220	0.4000	0.2500	2.5	3.4	1⅜ x 2⅝	400R221U350AH8	AH
330	0.3100	0.2000	2.8	4.0	1⅜ x 3⅛	400R331U350AB8	AB
330	0.3100	0.2000	2.0	2.8	1⅜ x 3⅛	400331U350AB8	AB

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
350 Vdc — 400 Vdc Surge							
340	0.3200	0.2100	1.8	2.5	1⅜ x 2⅛	400X341U350AA8	AA
390	0.2400	0.1500	3.7	5.2	2 x 2⅛	400R391U350BA8	BA
390	0.2500	0.1600	2.6	3.5	2 x 2⅛	400391U350BA8	BA
470	0.2100	0.1400	3.5	4.8	1⅜ x 4⅛	400R471U350AC8	AC
470	0.2100	0.1400	2.5	3.4	1⅜ x 4⅛	400471U350AC8	AC
480	0.2300	0.1500	2.2	3.0	1⅜ x 2⅝	400X481U350AH8	AH
560	0.1700	0.1100	4.6	6.4	2 x 2⅝	400R561U350BH8	BH
560	0.1800	0.1100	3.2	4.4	2 x 2⅝	400561U350BH8	BH
620	0.1900	0.1300	2.7	3.5	1¾ x 2⅛	400X621U350EA8	EA
680	0.1400	0.0870	5.4	7.4	2 x 3⅛	400R681U350BB8	BB
680	0.1400	0.0900	3.7	5.1	2 x 3⅛	400681U350BB8	BB
790	0.1600	0.1100	3.1	3.9	2 x 2⅛	400X791U350BA8	BA
820	0.1200	0.0780	3.8	5.1	1¾ x 4⅛	400821U350EC8	EC
820	0.1200	0.0760	5.4	7.4	1¾ x 4⅛	400R821U350EC8	EC
880	0.1300	0.0820	3.2	4.3	1⅜ x 4⅛	400X881U350AC8	AC
1000	0.0940	0.0610	6.5	8.9	2 x 4⅛	400R102U350BC8	BC
1000	0.0960	0.0630	4.5	6.1	2 x 4⅛	400102U350BC8	BC
1100	0.1100	0.0790	3.8	4.8	2 x 2⅝	400X112U350BH8	BH
1200	0.0840	0.0550	4.9	6.6	2 x 4⅝	400122U350BD8	BD
1200	0.0820	0.0530	7.1	9.6	2 x 4⅝	400R122U350BD8	BD
1400	0.0900	0.0620	4.4	5.6	2 x 3⅛	400X142U350BB8	BB
1500	0.0750	0.0490	5.2	6.9	2 x 5⅛	400152U350BE8	BE
1500	0.0670	0.0440	5.4	7.2	2 x 5⅝	400152U350BF8	BF
1500	0.0650	0.0420	7.9	10.7	2 x 5⅝	400R152U350BF8	BF
1600	0.0750	0.0510	4.6	5.9	1¾ x 4⅛	400X162U350EC8	EC
1700	0.0740	0.0510	4.9	6.1	2 x 3⅝	400X172U350BJ8	BJ
2000	0.0630	0.0440	5.4	6.7	2 x 4⅛	400X202U350BC8	BC
2400	0.0550	0.0390	5.8	7.2	2 x 4⅝	400X242U350BD8	BD
2700	0.0490	0.0340	6.1	7.5	2 x 5⅛	400X272U350BE8	BE
3000	0.0440	0.0310	6.4	7.9	2 x 5⅝	400X302U350BF8	BF
400 Vdc — 450 Vdc Surge							
100	1.0000	0.6000	1.4	2.0	1⅜ x 1⅝	400R101U400AK8	AK
100	1.0000	0.6000	1.0	1.4	1⅜ x 1⅝	400101U400AK8	AK
150	0.6000	0.3600	1.3	1.9	1⅜ x 2⅛	400151U400AA8	AA
150	0.6000	0.3600	1.9	2.7	1⅜ x 2⅛	400R151U400AA8	AA
190	0.5600	0.3400	1.3	1.8	1⅜ x 1⅝	400X191U400AK8	AK
220	0.4300	0.2600	1.6	2.3	1⅜ x 2⅝	400221U400AH8	AH
220	0.4300	0.2600	2.3	3.3	1⅜ x 2⅝	400R221U400AH8	AH
270	0.3300	0.2000	1.9	2.7	1⅜ x 3⅛	400271U400AB8	AB
270	0.3300	0.2000	2.7	3.9	1⅜ x 3⅛	400R271U400AB8	AB
310	0.3300	0.2100	1.8	2.5	1⅜ x 2⅛	400X311U400AA8	AA
330	0.2700	0.1700	2.1	3.0	1⅜ x 3⅝	400331U400AJ8	AJ
390	0.2300	0.1400	2.3	3.3	1⅜ x 4⅛	400391U400AC8	AC
390	0.2300	0.1400	3.3	4.7	1⅜ x 4⅛	400R391U400AC8	AC
440	0.2400	0.1500	2.2	3.0	1⅜ x 2⅝	400X441U400AH8	AH
470	0.1900	0.1100	4.4	6.2	2 x 2⅝	400R471U400BH8	BH
470	0.1900	0.1200	3.1	4.3	2 x 2⅝	400471U400BH8	BH
560	0.1900	0.1100	2.5	3.5	1⅜ x 3⅛	400X561U400AB8	AB
570	0.2000	0.1300	2.6	3.5	1¾ x 2⅛	400X571U400EA8	EA
680	0.1300	0.0800	3.6	5.0	1¾ x 4⅛	400681U400EC8	EC
680	0.1300	0.0780	5.1	7.3	1¾ x 4⅛	400R681U400EC8	EC
730	0.1700	0.1100	3.0	3.9	2 x 2⅛	400X731U400BA8	BA
810	0.1300	0.0800	3.1	4.3	1⅜ x 4⅛	400X811U400AC8	AC
820	0.1200	0.0760	4.0	5.5	2 x 3⅝	400821U400BJ8	BJ
820	0.1200	0.0730	5.7	8.0	2 x 3⅝	400R821U400BJ8	BJ
1000	0.1200	0.0790	3.7	4.8	2 x 2⅝	400X102U400BH8	BH
1000	0.1000	0.0620	6.2	8.8	2 x 4⅛	400R102U400BC8	BC
1000	0.1000	0.0640	4.3	6.0	2 x 4⅛	400102U400BC8	BC
1200	0.0800	0.0500	4.9	6.8	2 x 5⅛	400122U400BE8	BE
1200	0.0780	0.0480	7.1	10.0	2 x 5⅛	400R122U400BE8	BE
1300	0.0930	0.0620	4.3	5.5	2 x 3⅛	400X132U400BB8	BB
1500	0.0780	0.0500	4.5	5.9	1¾ x 4⅛	400X152U400EC8	EC
1600	0.0770	0.0510	4.8	6.1	2 x 3⅝	400X162U400BJ8	BJ
1900	0.0650	0.0440	5.2	6.6	2 x 4⅛	400X192U400BC8	BC
2200	0.0570	0.0380	5.6	7.1	2 x 4⅝	400X222U400BD8	BD
2500	0.0510	0.0340	5.9	7.5	2 x 5⅛	400X252U400BE8	BE
2800	0.0460	0.0310	6.2	7.8	2 x 5⅝	400X282U400BF8	BF
450 Vdc — 500 Vdc Surge							
56	1.1000	0.6100	1.3	1.9	1⅜ x 1⅝	400R560U450AK8	AK
68	1.1000	0.6200	0.9	1.4	1⅜ x 1⅝	400680U450AK8	AK
100	0.6400	0.3700	1.8	2.6	1⅜ x 2⅛	400R101U450AA8	AA
120	0.6500	0.3700	1.3	1.9	1⅜ x 2⅛	400121U450AA8	AA

Capacitance uF	ESR max ohms 120Hz	ESR max ohms 20kHz	Ripple amps @85°C 120Hz	Ripple amps @85°C 20kHz	Nominal Case Size D x L (inches)	Catalog Number	Case Code
450 Vdc — 500 Vdc Surge							
140	0.6200	0.3600	1.2	1.7	1⅜ x 1⅝	400X141U450AK8	AK
150	0.4600	0.2600	2.2	3.3	1⅜ x 2⅝	400R151U450AH8	AH
180	0.4600	0.2700	1.6	2.3	1⅜ x 2⅝	400181U450AH8	AH
180	0.3600	0.2100	2.6	3.8	1⅜ x 3⅛	400R181U450AB8	AB
220	0.3600	0.2100	1.8	2.7	1⅜ x 3⅛	400221U450AB8	AB
220	0.2900	0.1700	2.9	4.2	1⅜ x 3⅝	400R221U450AJ8	AJ
240	0.3700	0.2200	1.6	2.4	1⅜ x 2⅛	400X241U450AA8	AA
270	0.2900	0.1700	2.4	3.4	2 x 2⅛	400271U450BA8	BA
270	0.2500	0.1400	3.2	4.7	1⅜ x 4⅛	400R271U450AC8	AC
330	0.2000	0.1200	4.2	6.1	2 x 2⅝	400R331U450BH8	BH
330	0.2500	0.1400	2.2	3.3	1⅜ x 4⅛	400331U450AC8	AC
390	0.2100	0.1200	2.9	4.2	2 x 2⅝	400391U450BH8	BH
390	0.1600	0.0910	4.9	7.1	2 x 3⅛	400R391U4540BB8	BB
390	0.1600	0.0940	4.5	6.6	1¾ x 3⅝	400R391U450EJ8	EJ
430	0.2100	0.1200	2.4	3.4	1⅜ x 3⅛	400X431U450AB8	AB
440	0.2200	0.1300	2.5	3.4	1¾ x 2⅛	400X441U450EA8	EA
470	0.1400	0.0800	4.9	7.1	1¾ x 4⅛	400R471U450EC8	EC
550	0.1800	0.1100	2.9	3.8	2 x 2⅛	400X551U450BA8	BA
560	0.1600	0.0940	3.4	4.9	2 x 3⅛	400561U450BB8	BB
560	0.1300	0.0750	5.4	7.9	2 x 3⅝	400R561U450BJ8	BJ
620	0.1500	0.0850	2.9	4.1	1⅜ x 4⅛	400X621U450AC8	AC
680	0.1300	0.0770	3.8	5.4	2 x 3⅝	400681U450BJ8	BJ
680	0.0950	0.0550	6.4	9.3	2 x 4⅝	400R681U450BD8	BD
780	0.1300	0.0830	3.5	4.7	2 x 2⅝	400X781U450BH8	BH
820	0.0970	0.0580	4.5	6.3	2 x 4⅝	400821U450BD8	BD
820	0.0840	0.0490	6.8	9.8	2 x 5⅛	400R821U450BE8	BE
1000	0.1000	0.0650	4.1	5.4	2 x 3⅛	400X102U450BB8	BB
1000	0.0860	0.0510	4.7	6.7	2 x 5⅛	400102U450BE8	BE
1100	0.0860	0.0530	4.3	5.8	1¾ x 4⅛	400X112U450EC8	EC
1200	0.0840	0.0540	4.6	6.0	2 x 3⅝	400X122U450BJ8	BJ
1400	0.0720	0.0460	5.0	6.5	2 x 4⅛	400X142U450BC8	BC
1700	0.0620	0.0400	5.4	7.0	2 x 4⅝	400X172U450BD8	BD
1900	0.0560	0.0360	5.7	7.4	2 x 5⅛	400X192U450BE8	BE
2100	0.0500	0.0320	6.0	7.7	2 x 5⅝	400X212U450BF8	BF

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