

450 Volt d.c.		Price Each				
µF	Order Code	1+	10+	50+	100+	+
470	777-055	1,040.00	956.00	884.00	787.00	--
1000	777-067	1,909.00	1,756.00	1,622.00	1,422.00	--
2200	777-079	3,850.00	3,542.00	3,272.00	2,874.00	--
3300	777-080	5,189.00	4,774.00	4,411.00	4,064.00	--
4700	777-092	7,419.00	6,826.00	6,306.00	5,804.00	--

µF	Ripple (A) @ 100kHz 85°C	Ripple (A) @ 10kHz 85°C	ESR max. mΩ @ 20°C 100kHz	Dimensions H Dia. Pitch	Stud Thread	Mfrs. List No.	Order Code
1000	6.7	13.0	137	105 66 28.5	M12	ALS31A102MF500	777-109
2200	11.9	20.6	62	146 77 31.7	M12	ALS31A222NP500	777-110

500 Volt d.c.		Price Each				
µF	Order Code	1+	10+	50+	100+	+
1000	777-109	3,122.00	2,924.00	2,608.00	2,251.00	--
2200	777-110	6,588.00	6,047.00	5,573.00	4,651.00	--

Mounting Accessories		Price Per Kit			
	Order Code	1+	10+	50+	100+
M8 Nylon Nut Kit	777-146	34.00	32.00	30.00	28.00
M12 Nylon Nut Kit	777-158	38.00	36.00	33.00	32.00
M8 Steel Nut Kit	777-160	14.00	13.00	13.00	11.00
M12 Steel Nut Kit	777-171	14.00	13.00	13.00	12.00

Memory Backup

NF Series – Gold



5.5 Volt d.c.



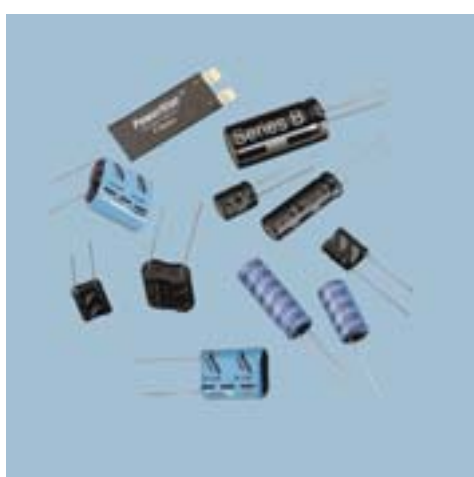
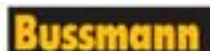
- Ideally suited for use in CMOS memory back-up
- Large capacitance for long time back-up
- Low profile horizontal mounting

Operating temperature -25°C to +70°C  
 Working voltage 5.5V d.c.  
 Tolerance @ 20°C 20% to +80%

Farads	Dimensions		Lead Size	Lead Pitch	Mfrs. List No.	Order Code
	H	Dia.				
0.1	7.5	13.5	1.2 x 0.5	5	EECF5R5U104	969-2703
0.47	8	21.5	1.2 x 0.5	5	EECF5R5U474	969-2711
1	8	21.5	1.2 x 0.5	5	EECF5R5U105	969-2720

		Price Each				
Farads	Order Code	1+	25+	50+	100+	+
0.1	969-2703	102.00	92.00	84.00	75.00	--
0.47	969-2711	252.00	229.00	209.00	186.00	--
1	969-2720	252.00	229.00	209.00	186.00	--

PowerStor® Supercapacitors



NEW

- Extremely low ESR (Equivalent Series Resistance) for high power and low loss during operation
- Ultra low leakage current (can hold a charge for several weeks)
- Very high charge-discharge cycle life (virtually infinite when compared to batteries)
- Wide operating temperature range
- High useable capacity (high energy that can be discharged quickly)

Applications include:

- Automotive and other electronics
- Power Conversion - Increased efficiency in high pulse rate designs
- Pulse power characterized by short, high current pulses delivered to a load, allowing the use of a smaller power supply or battery

PowerStor® capacitor's breakthrough low resistance enables its use in pulse power and electronic circuitry applications that other types of super-capacitors cannot address. For example, an Aerogel Capacitor the size of a "AA" alkaline battery can deliver up to 35 Amperes of peak current.

Working voltage		2.5V			
Operating temperature		-25°C to +70°C			
Operating life		1000h			
Capacitance F	ESR Resistance Measured @ 1kHz (Ω)	Dimensions (mm) Dia. max. (D') Length (L')		Voltage Mfrs. List No.	Order Code
<b>A Series</b>					
0.47	0.15	8.5	21	2.5	A0820-2R5474 643-8672
1.0	0.09	10.5	22.3	2.5	A1020-2R5105 538-8363
1.5	0.06	10.5	31.5	2.5	A1030-2R5155 643-8684
4.7	0.025	16.5	38	2.5	A1635-2R5475 452-1778
<b>B Series</b>					
0.22	3	5.5	12	2.5	B0510-2R5224 643-8696
1.0	0.4	8.5	13.5	2.5	B0810-2R5105 538-8375
1.5	0.3	10.5	14.4	2.5	B1010-2R5155 643-8726
2.2	0.2	8.5	21	2.5	B0820-2R5225 643-8702
3.3	0.15	10.5	22.3	2.5	B1020-2R5335 643-8738
4.7	0.15	8.5	31	2.5	B0830-2R5475 643-8714
6.8	0.1	10.5	31.5	2.5	B1030-2R5685 580-6008
10	0.06	13.5	28.4	2.5	B1325-2R5106 496-4779
33	0.3	18.5	38	2.5	B1835-2R5336 643-8740
<b>P Series</b>					
0.22	10	6	13	5	PA-5R0V224 496-4780
0.47	2	9	14.5	5	PA-5R0V474 538-8417
0.1	1	9	22	5	PB-5R0V104 538-8429
0.47	0.3	9	22	5	PB-5R0V474 580-6010
1.0	0.2	11	22	5	PB-5R0V105 496-4792
<b>F Series</b>					
0.33	0.2	2	40	3.6	FC-3R6334 881-4392

Mfrs. List No.	F	Order Code	1+	10+	50+	100+	+
<b>A Series</b>							
A0820-2R5474	0.47	643-8672	284.00	261.00	243.00	243.00	--
A1020-2R5105	1.0	538-8363	424.00	390.00	362.00	362.00	--
A1030-2R5155	1.5	643-8684	565.00	519.00	481.00	481.00	--
A1635-2R5475	4.7	452-1778	1,060.00	975.00	905.00	905.00	--
<b>B Series</b>							
B0510-2R5224	0.22	643-8696	106.00	98.00	90.00	90.00	--
B0810-2R5105	1.0	538-8375	178.00	163.00	151.00	151.00	--
B1010-2R5155	1.5	643-8726	353.00	325.00	302.00	302.00	--
B0820-2R5225	2.2	643-8702	353.00	323.00	300.00	300.00	--
B1020-2R5335	3.3	643-8738	266.00	246.00	227.00	227.00	--
B0830-2R5475	4.7	643-8714	444.00	408.00	378.00	378.00	--
B1030-2R5685	6.8	580-6008	530.00	488.00	452.00	452.00	--
B1325-2R5106	10	496-4779	622.00	573.00	530.00	530.00	--
B1835-2R5336	33	643-8740	1,678.00	1,544.00	1,430.00	1,430.00	--
<b>P Series</b>							
PA-5R0V224	0.22	496-4780	459.00	423.00	392.00	392.00	--
PA-5R0V474	0.47	538-8417	584.00	537.00	498.00	498.00	--
PB-5R0V104	0.1	538-8429	247.00	228.00	211.00	211.00	--
PB-5R0V474	0.47	580-6010	337.00	310.00	287.00	287.00	--
PB-5R0V105	1.0	496-4792	530.00	488.00	452.00	452.00	--
<b>F Series</b>							
FC-3R6334	0.33	881-4392	896.00	825.00	764.00	764.00	--

DB Series Electric Double Layer 'Dynacap'



5.5 Volt d.c.



- Miniature case size-large capacity
- Memory back-up
- Limitless lifetime under charge and discharge

Operating temperature -25°C to +70°C  
 Tolerance 20% to +80%

Lead pitch = 5 Lead size = 0.5 x 1.2

Farads	Discharge Time* @ 2µA (hrs)	Leakage Current (µA)	ESR (Ω) @ 1 kHz	Dimensions		Order Code
				H	Dia.	
0.047	23	69R	300R	7.5	13.5	106-834
0.1	48	100R	200R	7.5	13.5	106-835
0.47	228	216R	100R	8	21.5	106-836
1	485	315R	30R	8	21.5	106-837

\* Given for a voltage drop from 5 volts to 2 Volts

		Price Each		
Farads	Order Code	1+	25+	100+
0.047	106-834	149.00	114.00	95.00
0.1	106-835	167.00	128.00	109.00
0.47	106-836	351.00	272.00	227.00
1	106-837	404.00	311.00	260.00

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