

# Supercapacitors

## AVX BESTCAP SUPERCAPACITORS

The BestCap™ series of electrochemical supercapacitors offer excellent high power pulse characteristics based upon the combination of very high capacitance and ultra low ESR in the milliohm region. Supercapacitors have rapidly become recognized as an excellent compromise between "electronic" capacitors such as ceramic, tantalum, film and aluminum electrolytic, and batteries, but also a technology for providing a unique combination of characteristics, particularly very high energy, power and capacitance densities.

### Features:

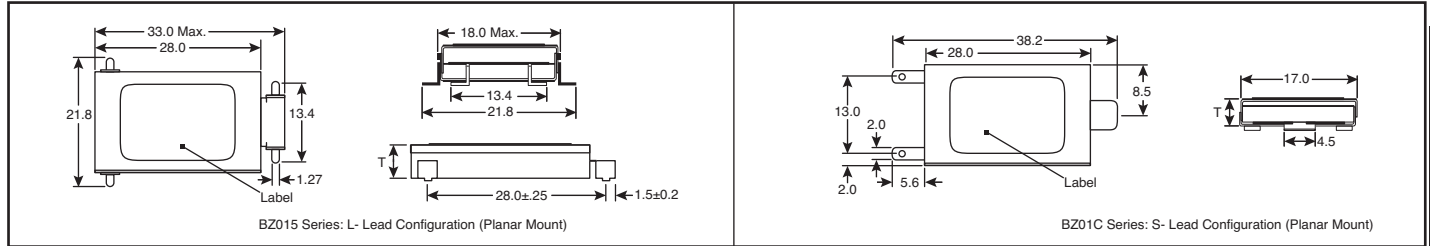
- High specific capacitance
- Very low ESR
- Low profile
- Non polar
- Low leakage
- High power pulse capability

### Applications:

- Memory back up
- Laser systems
- Wireless alarm systems
- GSM/GPRS wireless communication products
- ADSL/xDSL and other communication equipment
- Hybrid battery packs



RoHS Compliant  
DIMENSIONS: mm



For quantities of 50 and up, call for quote.

MOUSER STOCK NO.	AVX Part No.	Rating (Vdc)	Value (mF)	ESR (mΩ) @ 1kHz	Lead Format	DCL (μA) Max.	Case Size	Thickness "T" Max.	Price Each			
									1	5	10	25
581-BZ254B223ZSBCE	BZ254B223ZSBCE	4	22	--	S	--	20x15	--	15.75	14.63	13.50	12.38
581-BZ015A503ZLB	BZ015A503ZLB	5.5	50	160	L	5	28x17	3.5mm	14.83	13.87	10.50	10.15
581-BZ015B603ZLB	BZ015B603ZLB	5.5	60	80	L	10	28x17	4.8mm	14.42	13.21	12.06	10.98
581-BZ015A104ZLB	BZ015A104ZLB	5.5	100	80	L	10	28x17	6.1mm	19.25	17.88	16.50	15.13
581-BZ025A404ZLB	BZ025A404ZLB	5.5	400	35	L	40	48x30	6.1mm	53.10	49.68	45.29	41.62
581-BZ125A105ZLB	BZ125A105ZLB	5.5	1.0F	35	L	120	48x30	4.7mm	49.50	49.35	49.20	48.90
581-BZ013B503ZSB	BZ013B503ZSB	3.6	50	100	S	5	28x17	2.1mm	14.88	13.05	12.69	11.05
581-BZ055B153ZSB	BZ055B153ZSB	5.5	15	250	S	5	20x15	2.7mm	15.52	14.52	13.23	12.16
581-BZ055A333ZSB	BZ055A333ZSB	5.5	33	125	S	5	20x15	3.5mm	17.93	16.77	15.29	14.05
581-BZ015A104ZSB	BZ015A104ZSB	5.5	100	80	S	10	28x17	6.1mm	18.97	17.74	16.17	14.86
581-BZ01CA223ZSB	BZ01CA223ZSB	12	22	350	S	5	28x17	6.5mm	25.86	24.19	22.05	20.27
581-BZ05CA103ZSB	BZ05CA103ZSB	12	10	500	S	5	20x15	6.5mm	20.69	19.35	17.64	16.21

## ELNA MEMORY BACK-UP CAPACITORS

The DB and DX Series has a total withstand voltage rating of 5.5 Volts. They utilize ELNA's unique flat spring technology, which enhances the reliability of the internal coin cells. This series' are ideal for a wide range of applications from consumer applications to sophisticated instrumentations.

### Features:

- For memory back up in electronic devices
- Small size, large capacitance
- Wide temperature range: -25°C to +70°C
- Minimum self-discharging
- Capacitance tolerance: -20% to +80%

### DX Series

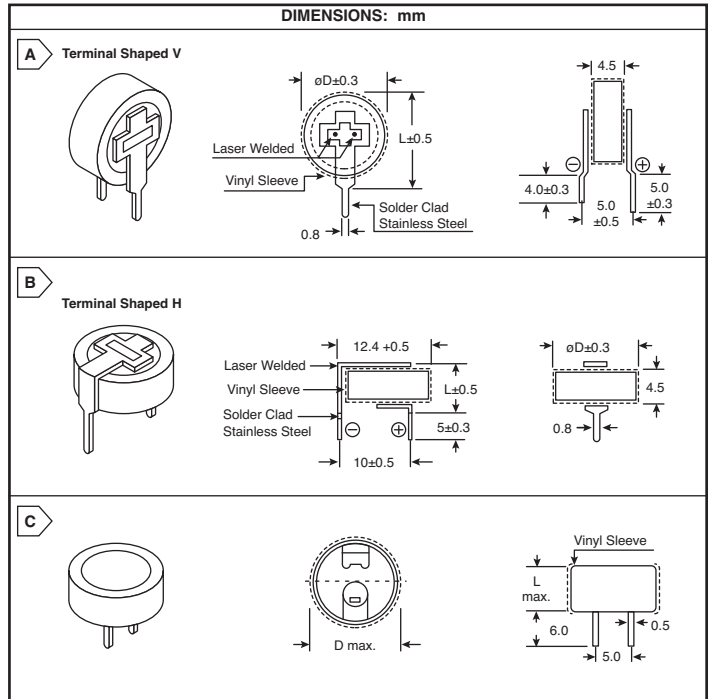
For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Volt (DC)	Value (F)	Dimensions: mm		Price Each				
				D	L	1	10	100	500	
<b>Vertical</b>										
555-DX-5R5V473U	A	5.5	.047	11.5	13.5	1.81	1.60	1.17	1.12	
555-DX-5R5V104U	A	5.5	.1	11.5	13.5	1.81	1.60	1.17	1.12	
555-DX-5R5V224U	A	5.5	.22	11.5	13.5	2.01	1.77	1.59	1.43	
555-DX-5R5V334U	A	5.5	.33	11.5	13.5	1.81	1.60	1.17	1.12	
<b>Horizontal</b>										
555-DX-5R5H473U	B	5.5	.047	11.5	5	1.81	1.60	1.17	1.12	
555-DX-5R5H104U	B	5.5	.1	11.5	5	1.81	1.60	1.17	1.12	
555-DX-5R5H224U	B	5.5	.22	11.5	5	1.81	1.60	1.17	1.12	
555-DX-5R5H334U	B	5.5	.33	11.5	5	1.81	1.60	1.17	1.12	

### DB Series

For quantities of 1000 and up, call for quote.

MOUSER STOCK NO.	Fig.	Volt (DC)	Value (F)	Dimensions: mm		Price Each				
				D	L	1	10	100	500	
555-DB-5R5D473T	C	5.5	.047	13.5	9.5	2.85	2.25	1.70	1.25	
555-DB-5R5D104T	C	5.5	.1	13.5	9.5	2.31	1.96	1.19	1.14	
555-DB-5R5D224T	C	5.5	.22	13.5	9.5	2.56	2.17	1.32	1.26	
555-DB-5R5D474T	C	5.5	.47	21.5	9.5	4.13	3.29	2.50	2.43	
555-DB-5R5D105T	C	5.5	1.0	21.1	9.5	5.15	4.10	3.11	3.03	

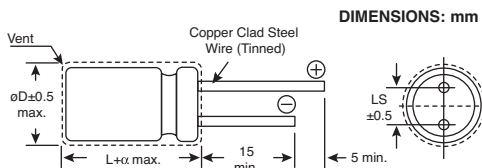


## ELNA ELECTRIC DOUBLE LAYER CAPACITORS

The DZ Series is an entirely new type of high current capacitor that has extremely low internal resistance (only 10% of standard double layer caps), capable of undergoing virtually unlimited charge/discharge cycles with no deterioration. With capacitance ranging from 1F to 100F and internal resistance from  $\leq 0.08$  to 1.0Ω, they are ideal for CMOS backup, or they can function as a simple power supply.

### Specifications:

- Temperature range: -40°C to +70°C
- Capacitance tolerance: -20% to +80%



### DZ Series

RoHS Compliant

MOUSER STOCK NO.	ELNA Part No.	Volt (DC)	Value (F)	Dimensions: mm			Price Each			
				D	L	LS	1	10	100	1000
555-DZ-2R5D105T	DZ-2R5D105T	2.5	1.0	8.0	22.0	3.5	1.50	1.32	1.22	1.11
555-DZ-2R5D106T	DZ-2R5D106T	2.5	10	12.5	23.0	5.0	9.72	7.95	6.33	5.56
555-DZ-2R5D335T	DZ-2R5D335T	2.5	3.3	12.5	31.5	5.0	3.82	3.12	2.49	2.18
555-DZ-2R5D475T	DZ-2R5D475T	2.5	4.7	18.0	35.0	7.5	5.73	4.68	3.73	3.28