



Supercapacitors

Line Card and Selection Guide



The Rapid Charge/Discharge Option for Pulsed Power Applications

Compared to batteries, Supercapacitors or Electric Double Layer Capacitors (EDLCs) provide longer operating life, lower maintenance requirements, and better high- and low-temperature performance, making them the technology of choice for high pulse power/large energy applications. Whether used alone, integrated into a module assembly, or in a hybrid configuration, SuperCaps will help reduce the overall cost and size of the system while improving return on investment.



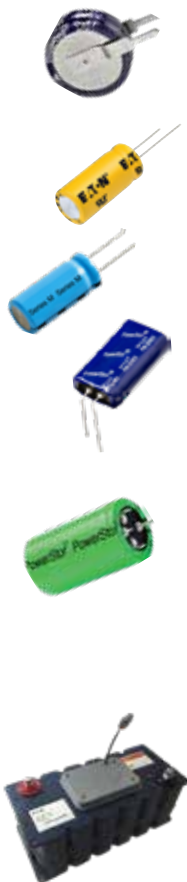
Reach your local sales team at 1.800.CALL.TTI



	Capacitance	Voltage	Temp Range
AVX			
SCC Series	1F - 3,000F Radial	2.7V	-40°C to +65°C; +85°C with Voltage Derating
3.0V SCC	1F - 50F Radial	3.0V	-40°C to +65°C; +85°C with Voltage Derating
SCC LE Low ESR	1F to 850F Radial	2.7V	-40°C to +65°C; +85°C with Voltage Derating
SCM Series	0.47F to 15F Radial	5.4V, 6.0V, 7.5V, 9.0V	-40°C to +65°C; +85°C with Voltage Derating
Hi-Rel SCM Series	0.47F to 1.5F Radial	5.0V, 5.4V	-40°C to +65°C; +85°C with Voltage Derating Hi-Rel when Used in Elevated Temps and/or High Humidity Conditions
BestCap	3.6V to 20V Radial	10mF to 1F	-20°C to +70°C
Modules			
16V SCM Series	16V	500F	-40°C to +65°C; Active Balanced Series-Battery Post Connections
48V SCM Series	48V	165F	



	Capacitance	Voltage	Temp Range
CDE/IC			
EDC Series	0.047F to 1.5F Coin	5.5V to 6.3V	-20°C to +70°C
EDS Series	0.047F to 1.5F Coin	3.6V to 5.5V	-25°C to +85°C
DGH Series	0.5F to 470F Radial	2.7V to 5.5V	-40°C to +65°C Low ESR
DSF Series	1.5F to 470F Radial	3.0V to 6.0V	-40°C to +65°C
VMF Series	30F - 220F Radial	3.8V	-15°C to +70°C
VPF Series	30F - 220F Radial	3.8V	-25°C to +60°C
DCN Series	0.3F - 400F Radial	2.7 to 5.5V	-40°C to +60°C
DER Series	1F - 650F Radial	2.5V	-25°C to +70°C
DCR Series	10F - 800F Radial or Snap-in	2.3V	-25°C to +70°C
Modules			
SCM Module Series	3F - 450F	8.1V - 129V	-25°C to +70°C; -40°C to +60°C; Active or Passive Balancing; Multiple terminations



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EATON			
Coin Cells			
KR Series	0.1 - 1.5F Coin	5.5V	-25°C to +70°C
KW Series	0.1 - 1.0F Coin	5.5V	-40°C to +85°C
Cylindrical Cells			
TV Series	6.0F - 100F Radial	3.0V, ESR 11-35mΩ	-40°C to +65°C
B Series	0.22F - 2.2F Radial	2.5V	-25°C to +70°C
HB Series	3.0F - 110F Radial	2.5V	-25°C to +70°C
HV Series	1.0F - 100F Radial	2.7V	-40°C to +65°C
M Series	1.0F - 9.0F Radial	2.5V	-40°C to +60°C
PHV Series	0.47 - 5.0F Radial	5.4V	-40°C to +65°C
PB Series	0.1F - 1.0F Radial	5.0V	-25°C to +70°C
PHB Series	0.1F - 5.0F Radial	5.0V	-25°C to +70°C
PM Series	0.1F - 3.0F Radial	5.0V	-40°C to +60°C
Large Cells			
XB Series	300 - 600F Snap-in	2.5V	-25°C to +70°C
XL60 Series	3000F Screw Term	2.7V	-40°C to +65°C
XT Series	275F - 555F Snap-in	3.0V	-40°C to +65°C
XV Series	300 - 600F Snap-in	2.7V	-40°C to +65°C
Modules			
XLM Series 62V Supercapacitor Module	Comprised of 23 individual supercapacitor cells, the 62V, 130F module is easily rack mounted and includes integrated cell voltage management circuitry and an overvoltage alarm. Low ESR – 6.7 mΩ		
XLR Series 48V Ruggedized Supercapacitor Module	Comprised of 18 individual XL60 supercapacitor cells, the 48V, 166F module is easily mounted and includes integrated cell voltage management circuitry and an overvoltage alarm. IP65; Vibration Resistant; ESR 5 mΩ		
XTM-18 Series	62F	18.0V	-40°C to +65°C
XVM Series 16V Supercapacitor Module	The 16V, 65F XVM Series supercapacitor module offers a means to easily achieve higher voltage, power or discharge time through a series or parallel connection of multiple modules.		
XVM-259 Series	4.17F - 6.25F	259.2V	-40°C to +65°C



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KEMET			
FC Series (True SMT)	0.047F - 0.47F SMD	3.5V, 5.5V	-25°C to +70°C Reflow Soldering - See Profile
FA Series	0.075F - 0.75F Coin	5.5V, 11.0V	-25°C to +70°C
FE Series	0.075F - 2.1F Coin	5.5V	-40°C to +70°C
FG Series	0.013F - 6.0F Coin	3.5V, 5.5V	-25°C to +70°C; -40°C to +85°C
FM Series	0.028F - 0.33F Box Style	3.5V, 5.5V, 6.5V	-25°C to +70°C; -40°C to +85°C
FR Series	0.028F - 1.6F Coin	5.5V	-40°C to +85°C
FS Series	0.033F - 6.5F Coin	5.5V, 11.0V, 12.0V	-25°C to +70°C
FT Series	0.14F - 7.2F Coin	5.5V	-40°C to +85°C
FY Series	0.013F - 3.3F Coin	5.5V	-25°C to +70°C
HV Series	1.0F - 200F Radial or Snap-in	2.7V	-25°C to +60°C; -25°C to +70°C



Nichicon			
JUM	1F - 47F Radial	2.7V	-25°C to +70°C
JUW	1F - 82F Radial	2.7V	-25°C to +70°C
JUK	6.8F - 27F Radial	2.5V	-40°C to +70°C
JJC	56F - 200F Snap-in	2.5V	-25°C to +60°C
JJD	1,000F - 2,500F Radial	2.5V	-25°C to +60°C
JJL	700F - 2,000F Radial	2.5V	-25°C to +60°C



UCC			
DKA Series	50F Radial	2.5V	-40°C to +70°C
DXF Series	3,500F Screw Term	2.8V	-40°C to +60°C
DXG Series	330F - 1,000F Screw Term	2.5V	-40°C to +85°C
DXE Series	400F - 1,400F Screw Term	2.5V	-40°C to +70°C
Modules			
DLCAP™ Module	133F - 466F	7.5V	-40°C to +70°C Balancing, Temp Monitor, Fail-detect Circuit



Vishay			
Hybrid Energy Storage			
196HVC ENYCAP™	4F - 90F	1.4V - 8.4V	-40°C to +85°C
MAL219699001E3	196HVC Eval kit: The integrated supercapacitor charger and backup boost regulator is optimized for use with ENYCAP™ supercapacitors as a backup energy storage device. The LTC3355 provides the supercapacitor with a programmable constant charging current from 35 mA to 600 mA and regulated cut-off voltage of 1.8 V to 3.2 V.		
EDLC			
196 DLC	0.047F - 1.0F Radial	5.5V, 6.3V	-25°C to +85°C
220EDLC	5F - 60F Radial	2.7V	-40°C to +85°C (1000 hrs)
225EDLC-R	5F - 60F Radial	2.7V	-40°C to +85°C (2000 hrs)
230EDLC-HV	5F - 60F Radial	3.0V	-40°C to +85°C (2000 hrs)



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