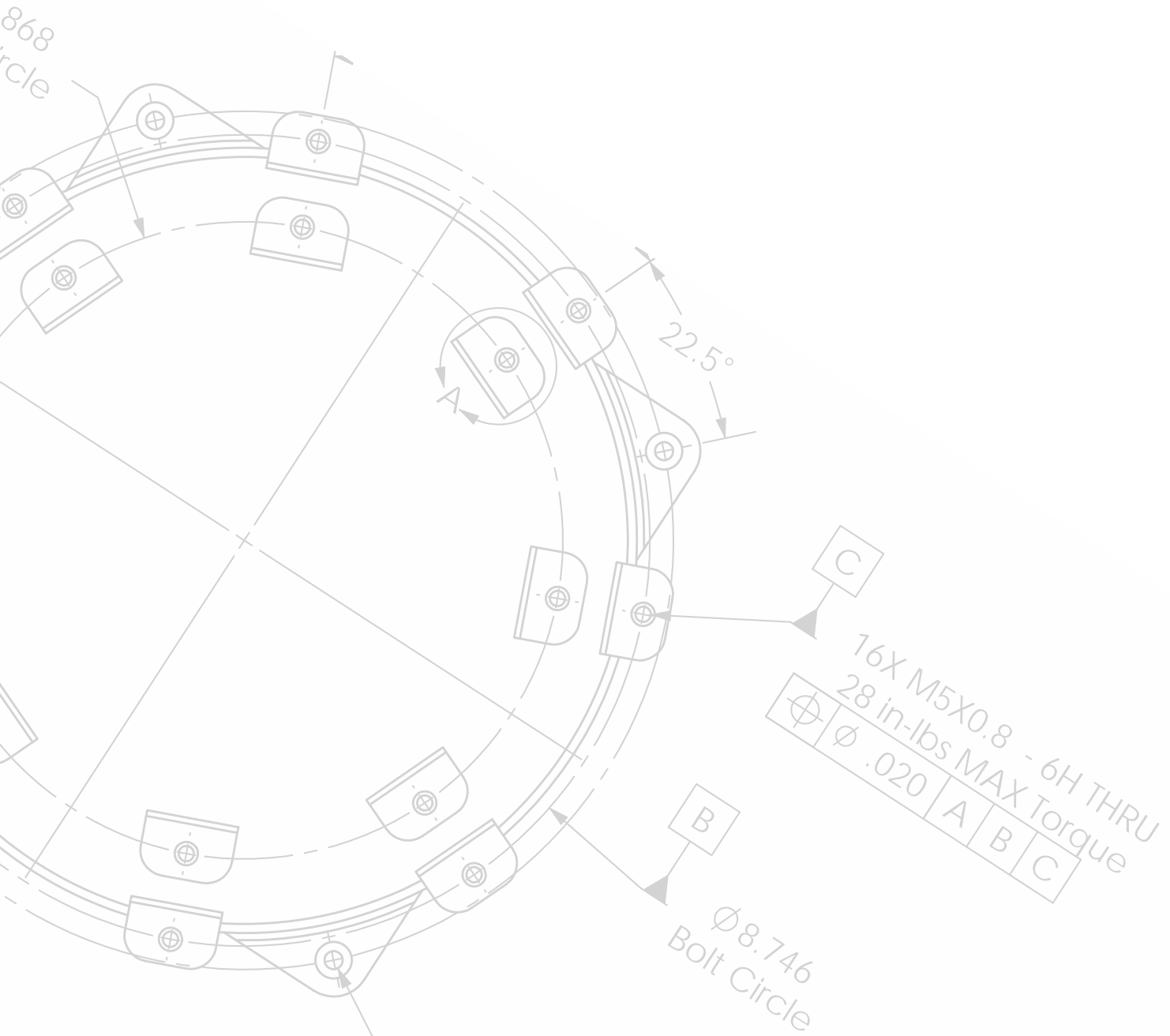


AT THE LEADING EDGE OF FILM CAPACITOR TECHNOLOGY®



SBE

POWER RING FILM CAPACITOR™ - DC LINK CAPACITORS

DC Volt. (Vdc)	Cap. (µF)	Standard Part #	UL Part #	Max Diameter	Max Height	RMS Current at 85°C
450	500	700D529		4.57" (116.1 mm)	2.04" (51.8 mm)	115
450	800	700D600		6.27" (159.3 mm)	2.16" (54.9 mm)	225
450	1,600	700D601		8.47" (215.2 mm)	2.16" (54.9 mm)	400
600	500	700D349	777D100	6.27" (159.3 mm)	2.16" (54.9 mm)	210
600	1,000	700D348	777D108	8.47" (215.2 mm)	2.16" (55.5 mm)	400
600	1,500	700D523	777D101	10.52" (267.2 mm)	2.19" (54.9 mm)	460
700	500	700D599	777D109	6.27" (159.3 mm)	2.16" (54.9 mm)	175
700	1,000	700D547	777D110	8.47" (215.2 mm)	2.16" (54.9 mm)	300
900	215	700D406		6.27" (159.3 mm)	2.16" (54.9 mm)	175
900	425	700D407		8.47" (215.2 mm)	2.16" (54.9 mm)	285
900	1,000	700D525	777D113	10.0" (254 mm)	2.80" (71.0 mm)	300
900	1,500	700D509	777D114	12.33" (313.2 mm)	2.82" (71.7 mm)	380
1,100	1,000	700D628	777D115	10.0" (254 mm)	2.80" (71.0 mm)	235
1,100	1,500	700D590	777D103	12.33" (313.2 mm)	2.82" (71.7 mm)	300
1,200	115	700D408		6.27" (159.3 mm)	2.16" (54.9 mm)	155
1,200	225	700D409		8.47" (215.2 mm)	2.16" (54.9 mm)	265
1,300	1,000	700D643		12.33" (313.2 mm)	2.82" (71.7 mm)	300
1,500	75	700D410		6.27" (159.3 mm)	2.16" (54.9 mm)	140
1,500	140	700D411		8.47" (215.2 mm)	2.16" (54.9 mm)	250



UL Recognition: UL 810
 UL File #: E364956

Design/Application Notes:

Power Ring Film Capacitor™ patented technology offers industry-leading power density and ESL/ESR performance in a compact package. These products are designed and tested for long-term exposure to elevated temperatures, continuous thermal cycles and transportation vibration. Reliability data and test processes are available at www.sbelectronics.com.

TEST KITS

Power Ring Test Kits are available for different Power Ring part numbers and with high performance bus structure and adaptor plate for popular IGBT modules from Infineon, Semikron, Fuji and Danfoss. ESL at the module pin is typically 15nH (less for half-bridge).

Please specify voltage, capacitance and IGBT module when ordering.

DC Volt. (Vdc)	Cap. (µF)	Test Kit #	Orientation	Encapsulated
450	1,000	700A144	Vertical	No
450	1,000	700A152	Vertical	Yes
600	600	700A155	Vertical	No
600	600	700A160	Vertical	Yes
600	500	700A349	Horizontal	Yes
600	1,000	700A348	Horizontal	Yes
900	1,500	700A509	Horizontal	Yes
1,100	1,500	700A590	Horizontal	Yes
1,100	3,000	700A163	Horizontal	Yes



600V - 600 µF



700D348 for Semikron



450V - 1000 µF for Infineon



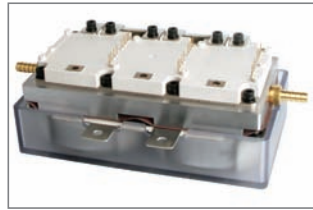
2 x 777D104 for half bridge

SBE INTEGRATED MODULES™

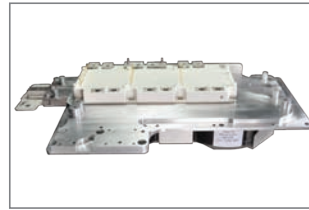
Ranging in voltage from 450 to 1,500V and in RMS current ratings from 100 to 1000+A, SBE Integrated Modules™ are the best way to optimize space, cost, and performance for next generation inverter and converter designs. Application and mechanical layout assistance is available to support your design goals.



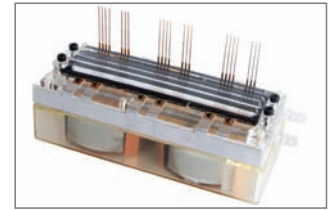
1200V, 1800 µF, 250A



450V, 1000 µF, 150A



600V, 850 µF, 200A



450V, 800 µF, 80A

DC Volt. (Vdc)	Cap. (µF)	UL Part #
1,100	3,000	777A103
1,100	3,000	777A104
1,100	3,000	700A163



UL Recognition: UL 810 UL File #: E364956

AC FILTER CAPACITOR BANK

AC Volt. (Vac)	Cap. (µF) +/- 5%	Standard Part #	Max Total Harmonic Current	Max Case Temperature
480	1,250	705A100	250A rms	+ 70°C

The AC Filter Capacitor takes advantage of SBE's Power Ring patented technology and implemented into your next generation systems will allow increased life and reliability. The dry film construction of the Power Ring Capacitor eliminates failures which cause collateral damage. Contact SBE today to find the drop-in solution that will fit your AC filter needs.



Single Phase

POWER RING FILM CAPACITOR™ - EXTREME ENERGY PULSE POWER®

DC Volt. (Vdc)†	Cap. (µF)	Series	Peak Current	Height‡ x Diameter (mm)	Dielectric
up to 100kV	up to 12,000	400D	up to 100kA	≤ 150 x 360	Metallized PET
up to 100kV	up to 12,000	700D	up to 100kA	≤ 150 x 360	Metallized PP

†Voltages beyond 8kV are achieved by stacking capacitor sections in series. The user assumes responsibility for the use of proper dielectric design practices and shielding.
‡Height of capacitor section only

Design/Application Notes:

The Power Ring's patented technology offers extreme energy storage/pulse power density in an innovative smaller package that allows for modularity and mounting flexibility.

This dry film, environmentally clean technology, is designed with terminals/interconnect systems that result in the lowest available ESL and peak discharge currents in excess of 250,000 amps.



PULSE / HIGH VOLTAGE CAPACITORS

DC Volt. (Vdc)	Cap. (µF)	Series	Tolerance	Dielectric
up to 5KV	up to 100	40PC	±1 to ±10%	Polyester (PET)
up to 5KV	up to 100	70PC	±1 to ±10%	Polypropylene (PP)



DC Volt.(Vdc)	Cap. Range (µF)	Series	Height (mm)	Diameter Range	Peak Current Range (kA)
750	500 - 5,000	771D	80	4.9" - 13.6" (125 - 345 mm)	5.6 - 56
1,500	500 - 3,000	772D	155	6.5" - 15" (165 - 380 mm)	11 - 69
2,500	100 - 1,000	773D	125	5.1" - 15" (130 - 380 mm)	6.7 - 67
3,500	100 - 650	774D	165	5.75" - 14.5" (146 - 368 mm)	13.5 - 75
8,000	5 - 50	775D	80	4.5" - 9.8" (115 - 250 mm)	5.8 - 58

