

Power Ring Film Capacitor 500 μ F, 700 Vdc

The 700D50797-599 Power Ring is a 700 Vdc, 500 μ F DC Link Capacitor with an ESR of 390 micro-Ohms at 20 kHz and an ESL of less than 5 nH.



Electrical Specifications

Part #: 700D50797-599

Capacitance/Tolerance: 500 μ F \pm 10%

DC Voltage Rating: 700 Vdc

Dielectric/Construction: Metallized polypropylene.
Single section design

Dielectric Withstand Voltage: Units 100% tested at DC potential of 875 Volts for two minutes at 25°C

ESL: Less than 5 nH in a suitable laminar bus structure

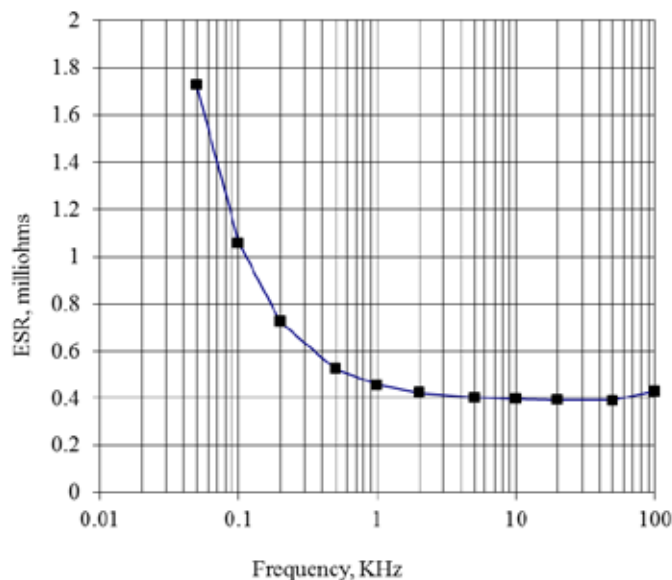
Thermal Resistance: 1.52°C/W (case side cooling only)
0.67°C/W (case and bus side cooling only)

Operating Temperature: -40°C to +85°C at full DC voltage rating

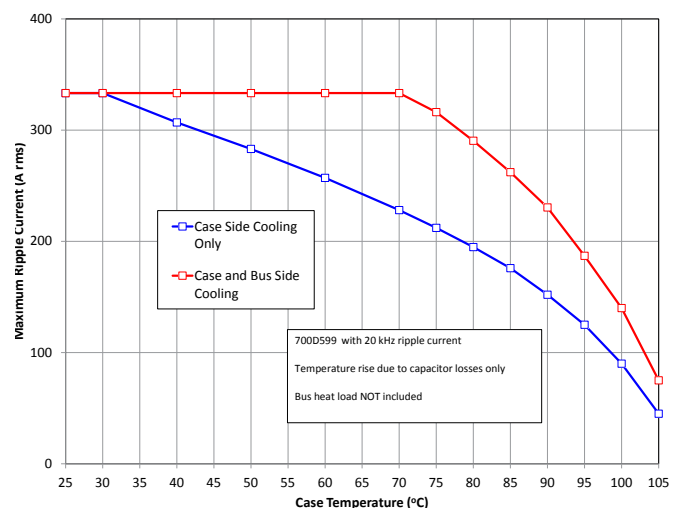
Voltage, Temperature De-rating: De-rate voltage linearly to 500 Volts from +85°C to +107°C, with respect to hotspot temperature

System Fault Current Rating: 10,000 Amps maximum (external to the capacitor)

Typical ESR vs. Frequency:



RMS Current Rating:



Advanced Conversion reserves the right to amend design data

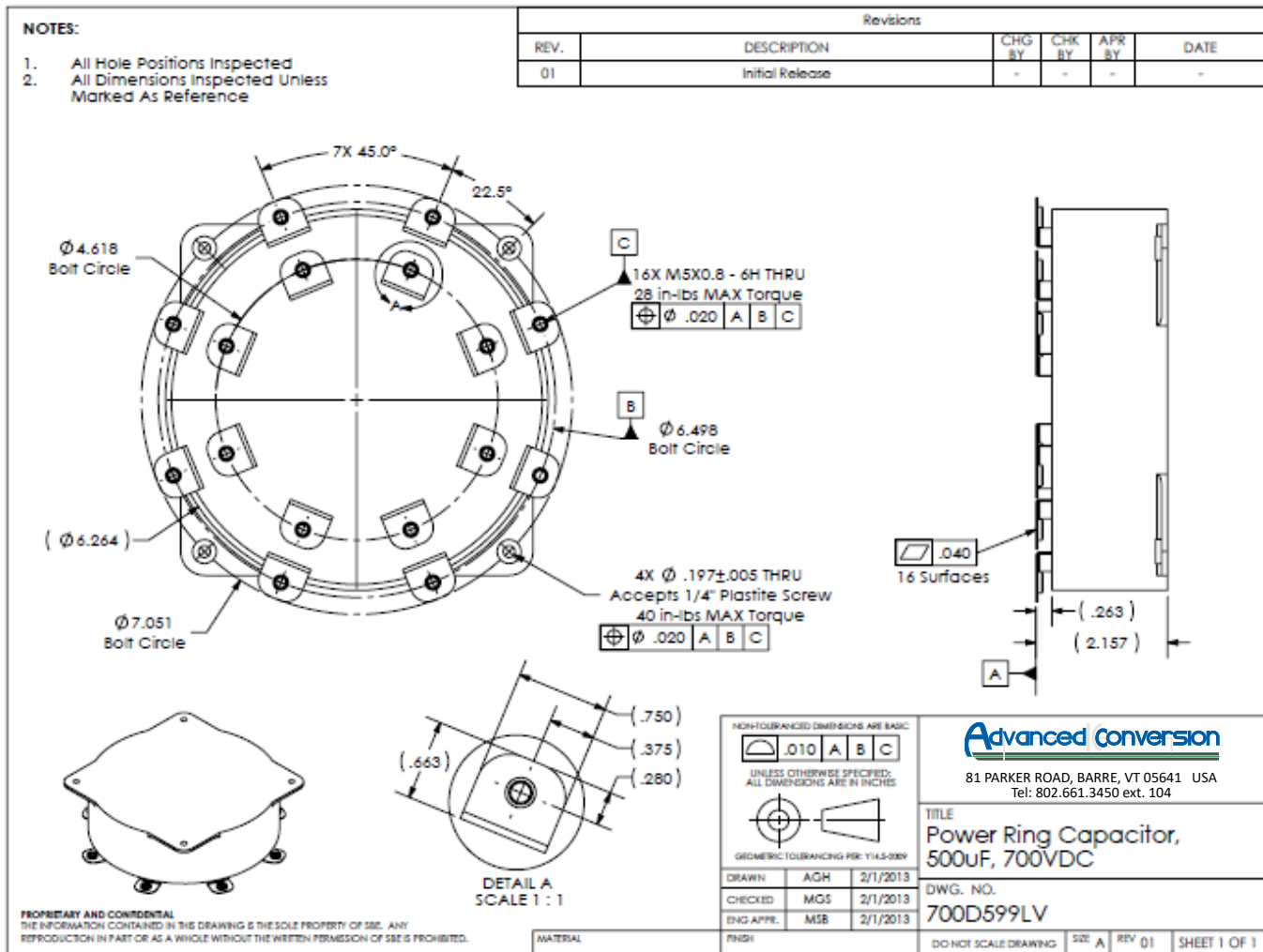
At the Leading Edge of Film Capacitor Technology

Mechanical Specifications

Dimensions:	See layout drawing for details	Marking: APCS	company identification
Terminals:	Tin plated copper, 0.032" thick	700D599	Unique part number
Encapsulation:	Molded polymeric case, potted with RTV silicone	500 μ F \pm 10%	Capacitance value and tolerance
		700 Vdc	DC voltage rating
		yyww-lot#-unit	Serial number (date code, lot number, unit number)

Layout Details:

Contact Advanced Conversion to discuss your specific requirements.



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