

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.

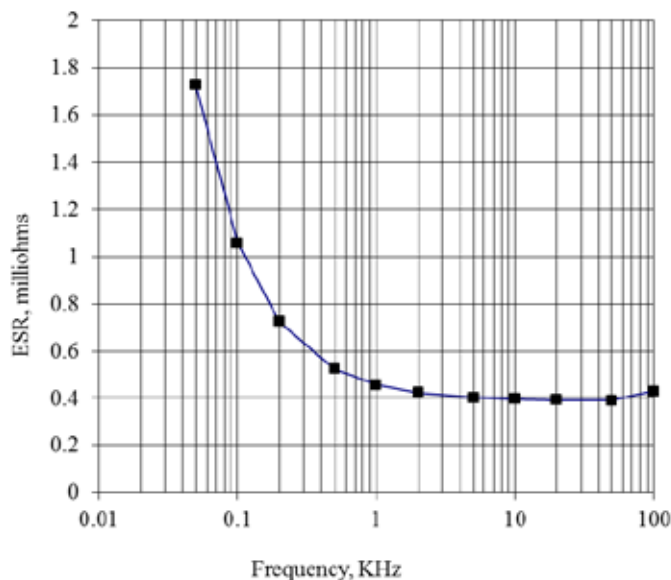


Electrical Specifications

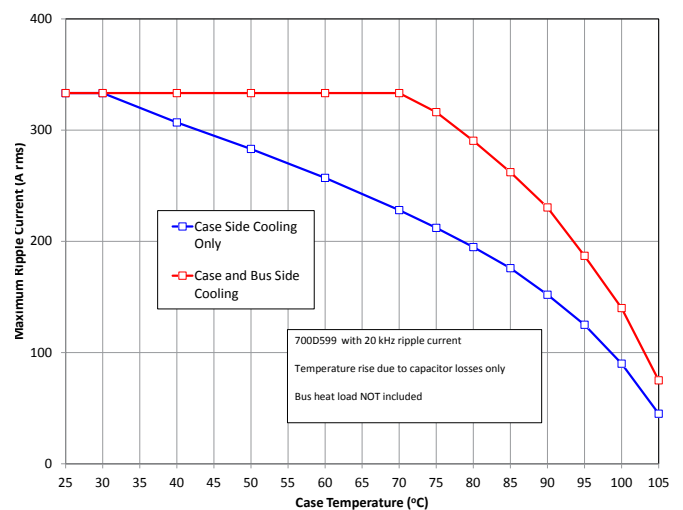
Part #:	700D50797-599
Capacitance/Tolerance:	500 μ F \pm 10%
DC Voltage Rating:	700 Vdc
Dielectric/Construction:	Metallized polypropylene. Single section design
Dielectric Withstand Voltage:	Units 100% tested at DC potential of 875 Volts for two minutes at 25°C

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:

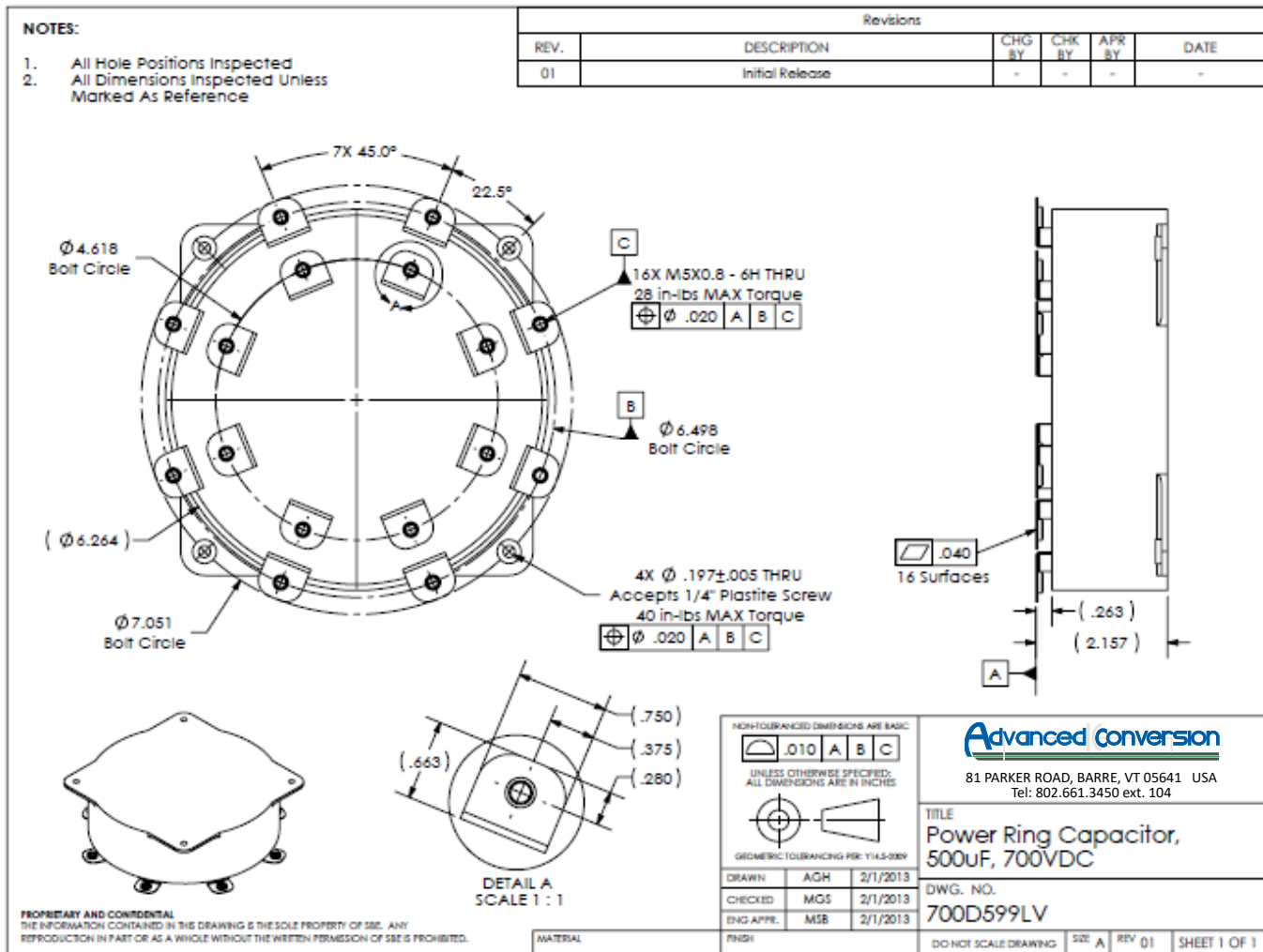


Mechanical Specifications

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.



#700D599-03/21



Advanced Conversion reserves the right to amend design data