

Power Ring Film Capacitor 1000 μ F, 700 Vdc

The 700D547 Power Ring is a 450Vdc, 1000 μ F DC Link Capacitor with an ESR of less than 250 micro-Ohms at 20kHz and an ESL of less than 5nH.



Electrical Specifications

Part #: 700D547

Capacitance/Tolerance: 1000 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 950 Volts for two minutes at 25°C

Insulation Resistance: 100 M Ω Min at +25°C

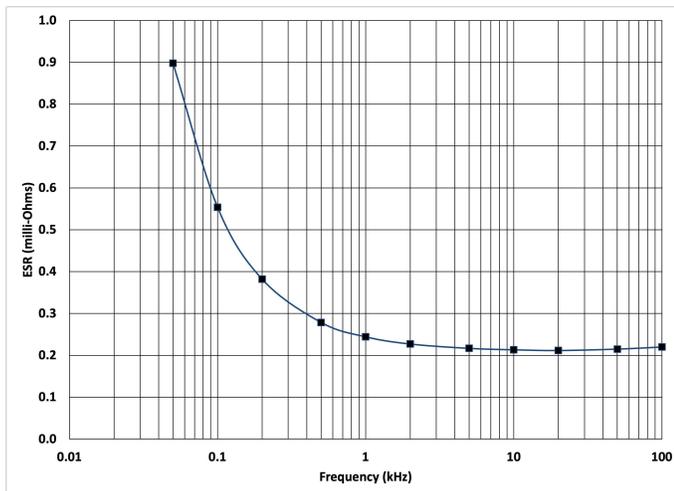
ESL: Less than 5 nH when mounted on a suitable bus structure

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

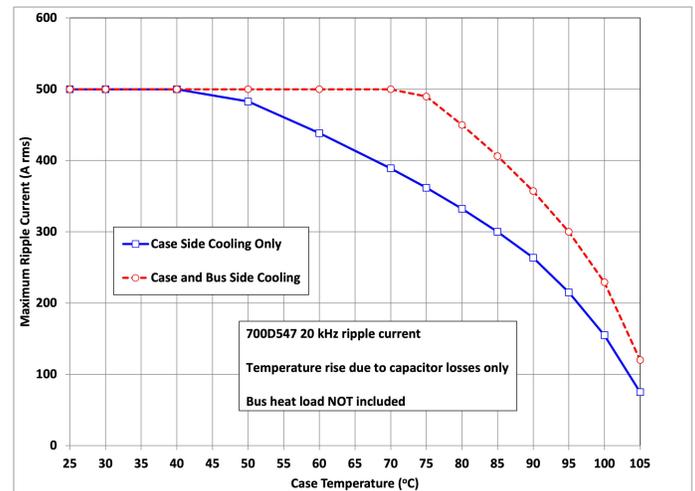
Voltage, Temperature De-rating: For applications above +85°C, please contact Advanced Conversion

System Fault Current Rating: 7,500 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:	Matte tin plated copper, 0.032" thick	700D547	Unique part number
Encapsulation:	Polycarbonate outer housing, potted with RTV silicone	1000 μ F \pm 10%	Capacitance value and tolerance
		7000 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.

Notes:

- All Hole Positions Inspected
- All Dimensions Inspected Unless Marked as Reference

Revisions					
REV.	DESCRIPTION	CHG BY	CHK BY	APR BY	DATE
01	Initial Release	-	-	-	-
02	Added Terminal Foot Detail View	DMB	MGS	MSB	12/08/2010
03	Reformatted SBE Drawing Template (no external effect)	AGH	MGS	MSB	12/14/2010
04	Replaced 100T4533390 Case With 100T4553397 Case	AGH	MGS	MSB	03/10/2011

Dimensions and Tolerances:

- 7X 45.0° (Terminal Foot Angles)
- 22.5° (Terminal Foot Angle)
- $\varnothing 6.868$ Bolt Circle
- $\varnothing 8.465$ (Reference Dimension)
- $\varnothing 9.252$ Bolt Circle
- $\varnothing 8.746$ Bolt Circle
- 4X $\varnothing .197 \pm 0.005$ THRU (Accepts 1/4" Plastite Screw 40 in-lbs MAX Torque)
- $\varnothing .165$ THRU MSXO.8 - 6H THRU (Tolerance: $\varnothing .020$ A B C)
- 16 Surfaces (Surface Finish: $.040$)
- Terminal Foot Dimensions: $(.260)$, (2.154)
- Detail A Dimensions: $(.663)$, (1.000) , $(.500)$, $(.280)$
- Accepts 1/4" Plastite Screw 40 in-lbs MAX Torque (Tolerance: $\varnothing .020$ A B C)

Geometric Tolerancing:

- NON-TOLERANCED DIMENSIONS ARE BASIC: $\varnothing .030$ A B C
- UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES
- GEOMETRIC TOLERANCING PER: Y14.5-2009

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TITLE: Power Ring Capacitor, 1000uF, 700VDC
DWG. NO.: 700D547LV

DRAWN	DMB	10/25/13
CHECKED	MGS	10/26/13
ENG APPR.	MSB	10/26/13

DO NOT SCALE DRAWING SIZE A REV 04 SHEET 1 OF 1

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#700D547-03/21

Advanced Conversion reserves the right to amend design data