

Power Ring Film Capacitor 425 μ F, 900 Vdc

The 700D42799-407 Power Ring is a 900 Vdc, 425 μ F DC Link Capacitor with an ESR of 180 micro-Ohms at 20 kHz and an ESL of less than 5 nH.



Electrical Specifications

Part #: 700D42799-407

Capacitance/Tolerance: 425 μ F \pm 10%

DC Voltage Rating: 900 Vdc

Dielectric/Construction: Metallized polypropylene.
Single section design

Dielectric Withstand Voltage: Units 100% tested at DC potential of 1125 Volts for two minutes at 25°C

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

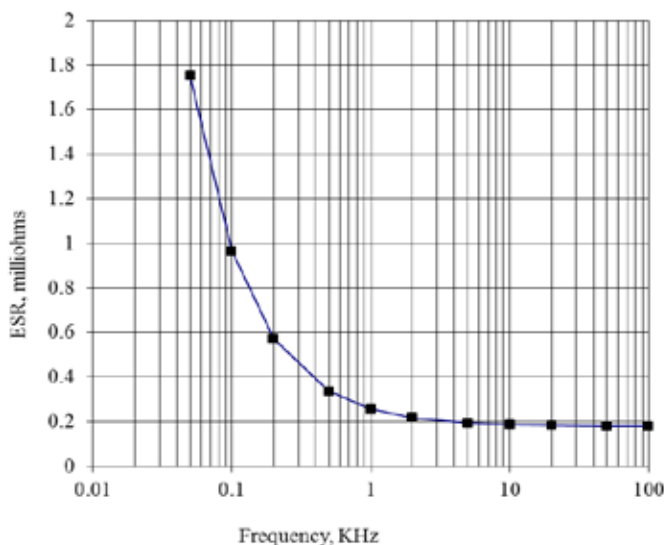
Thermal Resistance: 0.92°C/W (case side cooling only)
0.44°C/W (case and bus side cooling only)

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

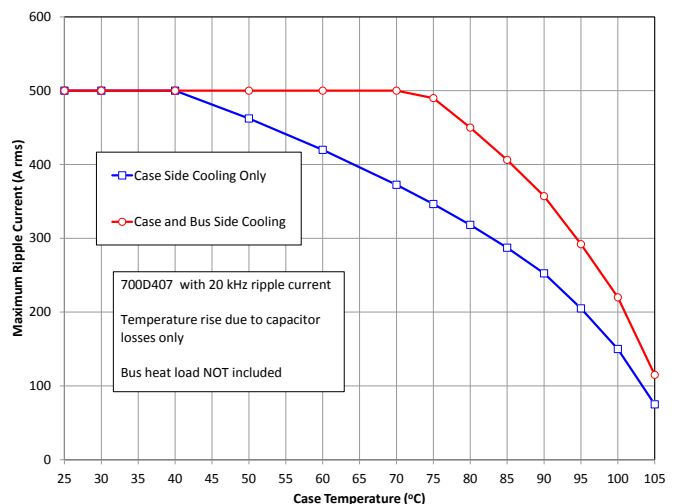
Voltage, Temperature De-rating: De-rate voltage linearly to 700 Volts from +85°C to +107°C, with respect to hotspot temperature

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

Mechanical Specifications

Dimensions: See layout drawing for details
Terminals: Tin plated copper, 0.032" thick
Encapsulation: Molded polymeric case, potted with RTV silicone

Marking: APCS company identification
 700D407 Unique part number
 425 μ F \pm 10% Capacitance value and tolerance
 900 Vdc DC voltage rating
 yyyy-lot#-unit Serial number (date code, lot number, unit number)

Layout Details:

Contact Advanced Conversion to discuss your specific requirements.

NOTES:
 1. All Hole Positions Inspected
 2. All Dimensions Inspected Unless Marked As Reference

Revisions					
REV.	DESCRIPTION	CHG BY	CHK BY	APP BY	DATE
01	Initial Release	-	-	-	-
02	Standardized Layout View	AGH	MCS	M5B	12/14/2010

Dimensions and Callouts:
 - 7X 45.0°
 - 22.5°
 - ϕ 6.868 Bolt Circle
 - ϕ 8.465
 - ϕ 9.252 Bolt Circle
 - ϕ 8.746 Bolt Circle
 - 16X M5X0.8 - 6H THRU 28 In-lbs MAX Torque
 - 4X ϕ .197 \pm .005 THRU Accepts 1/4" Plastite Screw 40 In-lbs MAX Torque
 - 16 Surfaces ϕ .040
 - (.263)
 - (.2157)
 - (.100)
 - (.500)
 - (.280)
 - (.663)

Geometric Tolerancing:
 - ϕ .020 A B C
 - ϕ .020 A B C
 - ϕ .010 A B C
 - ϕ .040 A B C

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TITLE: Power Ring Capacitor, 425 μ F, 900VDC
DWG. NO.: 700D407LV

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DETAIL A SCALE 1:1

DO NOT SCALE DRAWING SEE A REV 02 SHEET 1 OF 1

#700D407-03/21



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