

Power Ring Film Capacitor 425 µF, 900 Vdc

The 700D42799-407 Power Ring is a 900 Vdc, 425 µF 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 µF ±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-rate voltage linearly to

De-rating:

700 Volts from +85°C to +107°C,

with respect to hotspot

temperature

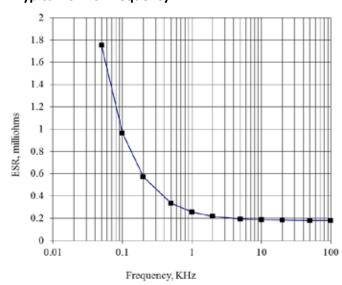
System Fault Current

Rating:

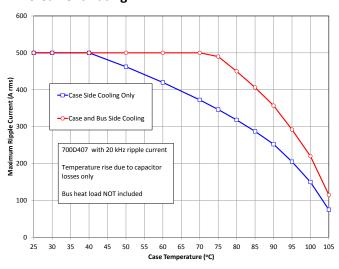
10,000 Amps maximum (external

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 μF ±10% Capacitance value and

tolerance

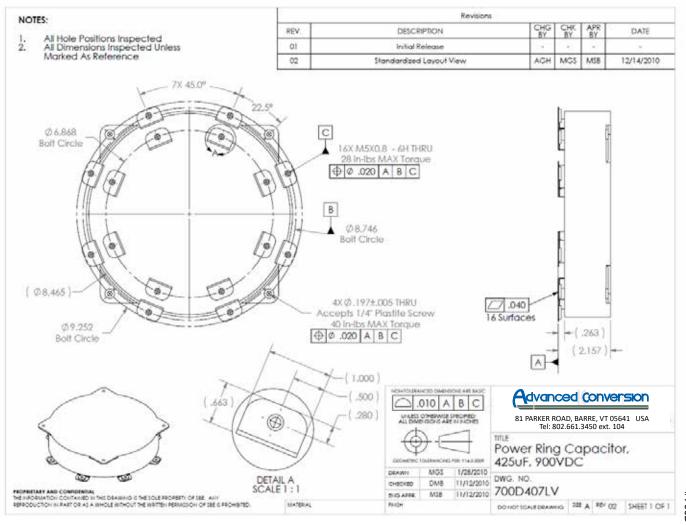
900 Vdc DC voltage rating

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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