

Power Ring Film Capacitor 1600 μ F, 450 Vdc

The 700D601 Power Ring is a 450 Vdc, 1600 μ F DC Link Capacitor with an ESR of 98 micro-Ohms at 20 kHz and an ESL of less than 5 nH.



Electrical Specifications

Part #: 700D601

Capacitance/Tolerance: 1600 μ F \pm 10%

DC Voltage Rating: 450 Vdc

Dielectric/Construction: Metallized polypropylene.
Single section design

Dielectric Withstand Voltage: Units 100% tested at DC potential of 560 Volts for two minutes at 25°C

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

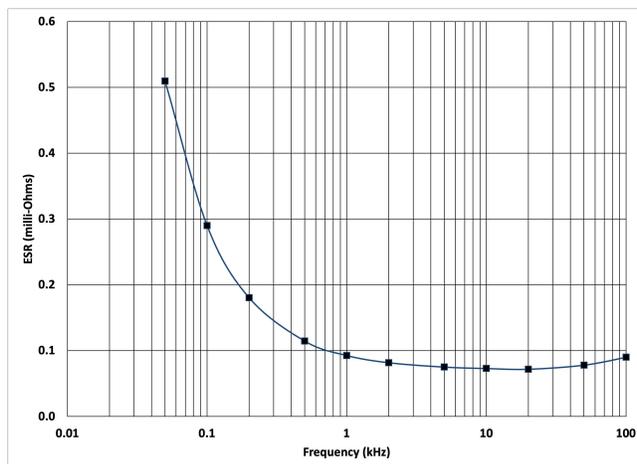
Thermal Resistance: 1.07°C/W (case side cooling only)
0.55°C/W (case and bus side cooling only)

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

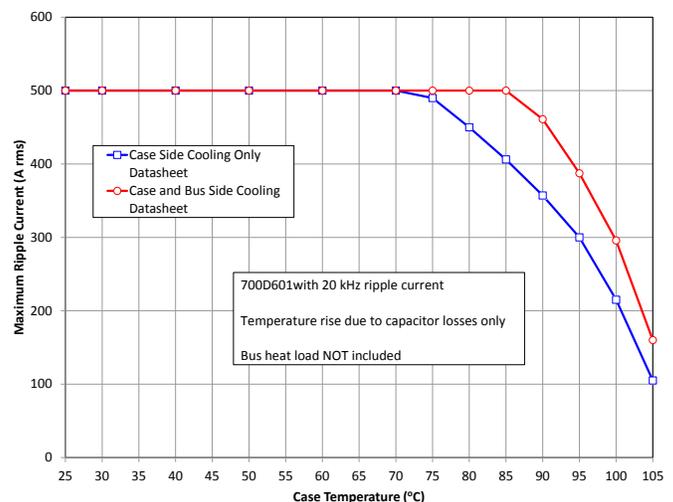
Voltage, Temperature De-rating: De-rate voltage linearly to 250 Volts from +85°C to +107°C, with respect to hotspot temperature

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
Terminals: Tin plated copper, 0.032" thick
Encapsulation: Molded polymeric case, potted with RTV silicone

Marking: APCS company identification
 700D601 Unique part number
 1600 $\mu\text{F} \pm 10\%$ Capacitance value and tolerance
 450 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:
 1. All Hole Positions Inspected
 2. All Dimensions Inspected Unless Marked as Reference

Revisions					
REV.	DESCRIPTION	CHG BY	CHK BY	APR BY	DATE
01	Initial Release	-	-	-	-
02	Standardized Layout View	AGH	MGS	MSB	02/14/2011

Dimensions and Tolerances:
 - 7X 45.0° chamfers
 - 22.5° chamfers
 - $\varnothing 6.868$ Bolt Circle
 - $\varnothing 8.465$ (Reference)
 - $\varnothing 9.252$ Bolt Circle
 - 16X M5X0.8 - 6H THRU, 28 in-lbs MAX Torque, $\varnothing .020$ A B C
 - 4X $\varnothing .197 \pm .005$ THRU, Accepts 1/4" Plastite Screw, 40 in-lbs MAX Torque, $\varnothing .020$ M A B C
 - $\varnothing 8.746$ Bolt Circle
 - 16 Surfaces, $.040$ chamfer
 - $.263$ and (2.157) side dimensions
 - Detail A: $.663$, 1.000 , $.500$, $.280$ dimensions, SCALE 1:1

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TITLE
 Power Ring Capacitor,
 1600 μF , 450VDC

DWG. NO.
 700D601LV

DRAWN	MGS	1/28/2010
CHECKED	DMB	11/12/2010
ENG APPR.	MSB	11/17/2010

NON-TOLERANCED DIMENSIONS ARE BASIC
 UNLESS OTHERWISE SPECIFIED:
 ALL DIMENSIONS ARE IN INCHES

GEOMETRIC TOLERANCING PER: Y14.5-2009

MATERIAL: FINISH: DO NOT SCALE DRAWING SIZE A REV 02 SHEET 1 OF 1

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#700D601-03/21

Advanced Conversion reserves the right to amend design data