

Power Ring Film Capacitor 800 μ F, 450 Vdc

The 700D600 Power Ring is a 450 Vdc, 800 μ F DC Link Capacitor with an ESR of 188 micro-Ohms at 20 kHz and an ESL of less than 5 nH.



Electrical Specifications

Part #: 700D600

Capacitance/Tolerance: 800 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

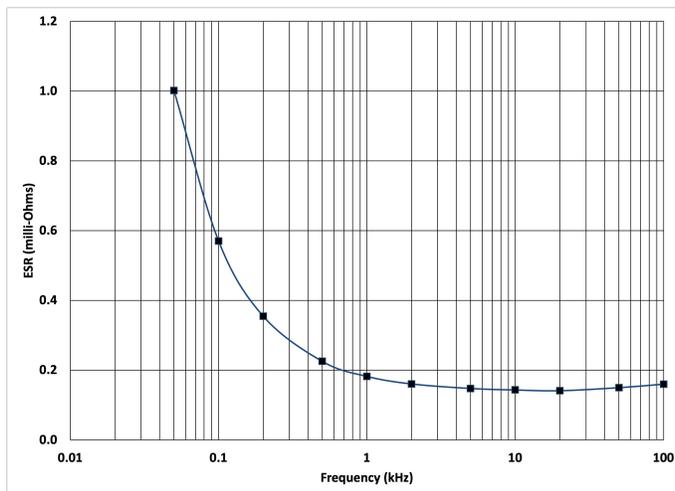
Thermal Resistance: 1.65°C/W (case side cooling only)
0.68°C/W (case and bus side cooling only)

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

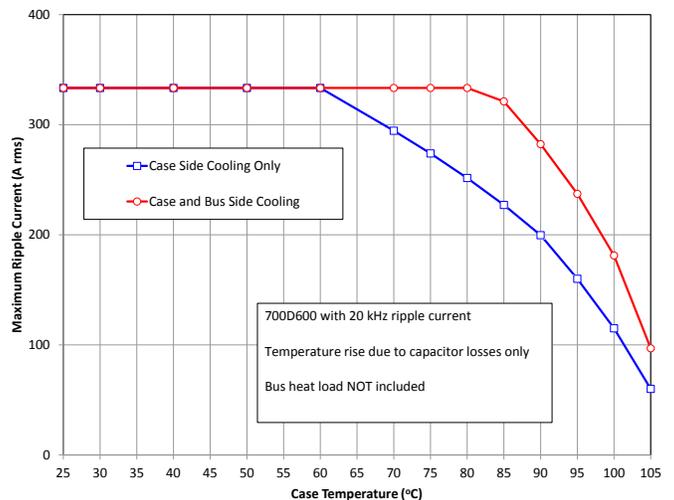
Voltage, Temperature De-rating: De-rate voltage linearly to 250 Volts from +85°C to +107°C, with respect to hotspot temperature

System Fault Current Rating: 10,000 Amps maximum (external to the capacitor)

Typical ESR vs. Frequency:



RMS Current Rating:



Advanced Conversion reserves the right to amend design data

At the Leading Edge of Film Capacitor Technology

Mechanical Specifications

Dimensions:	See layout drawing for details	Marking: APCS	company identification
Terminals:	Tin plated copper, 0.032" thick	700D600	Unique part number
Encapsulation:	Molded polymeric case, potted with RTV silicone	800 μ 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:

- 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	Standardized Layout View	AGH	DMB	MSB	12/14/2010

Top View Dimensions:

- 7X 45.0° (Angular spacing)
- 22.5° (Angular spacing)
- Ø 4.618 Bolt Circle
- Ø 6.264 (Reference)
- Ø 7.051 Bolt Circle
- Ø 6.498 Bolt Circle
- 16X M5X0.8 - 6H THRU 28 in-lbs MAX Torque (Tolerance: $\oplus \text{Ø } .020$ A B C)
- 4X Ø .197 \pm 005 THRU Accepts 1/4" Plastite Screw 40 in-lbs MAX Torque (Tolerance: $\oplus \text{Ø } .020$ A B C)

Side View Dimensions:

- Ø .040 (16 Surfaces)
- (.263)
- (2.157)

DETAIL A SCALE 1 : 1

- (.750)
- (.375)
- (.280)
- (.663)

Geometric Tolerancing:

- NON-TOLERANCED DIMENSIONS ARE BASIC
- UNLESS OTHERWISE SPECIFIED: ALL DIMENSIONS ARE IN INCHES
- GEOMETRIC TOLERANCING PER: Y14.5-2009

DRAWN		MGS	2/11/2010
CHECKED		MGS	10/11/2010
ENG APPR		MSB	10/14/2010

Advanced Conversion <i>an ETI company</i>	
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TITLE Power Ring Capacitor, 800 μ F, 450VDC	
DWG. NO. 700D600LV	

MATERIAL	FINISH	DO NOT SCALE DRAWING	SIZE A	REV 02	SHEET 1 OF 1
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#700D600-03/21

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