

## Power Ring Film Capacitor 140 $\mu$ F, 1500 Vdc

The 700D147915-411 Power Ring is a 1500 Vdc, 140  $\mu$ F DC Link Capacitor with an ESR of 290 micro-Ohms at 20 kHz and an ESL of less than 5 nH.



### Electrical Specifications

**Part #:** 700D147915-411

**Capacitance/Tolerance:** 140  $\mu$ F  $\pm$ 10%

**DC Voltage Rating:** 1500 Vdc

**Dielectric/Construction:** Metallized polypropylene.  
Single section design

**Dielectric Withstand Voltage:** Units 100% tested at DC potential of 1875 Volts for two minutes at 25°C

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

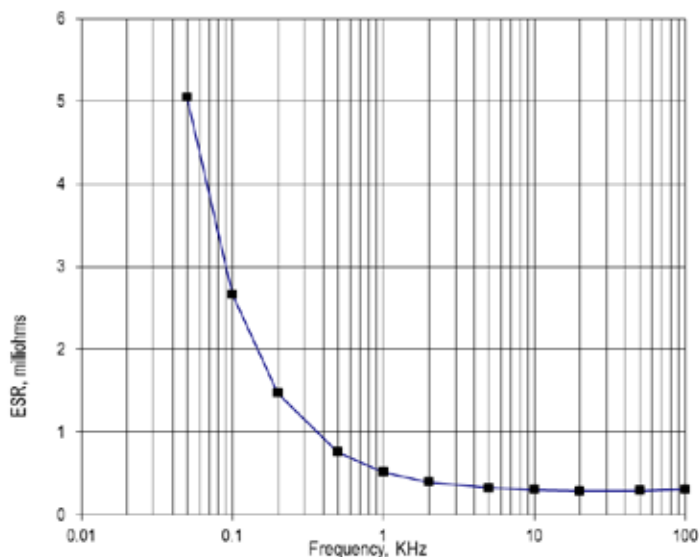
**Thermal Resistance:** 0.92°C/W (case side cooling only)  
0.44°C/W (case and bus side cooling only)

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

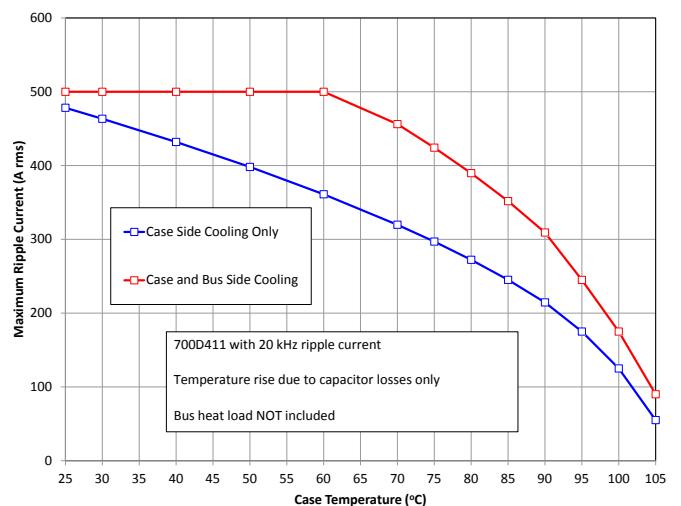
**Voltage, Temperature De-rating:** De-rate voltage linearly to 1300 Volts from +85°C to +107°C, with respect to hotspot temperature

**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

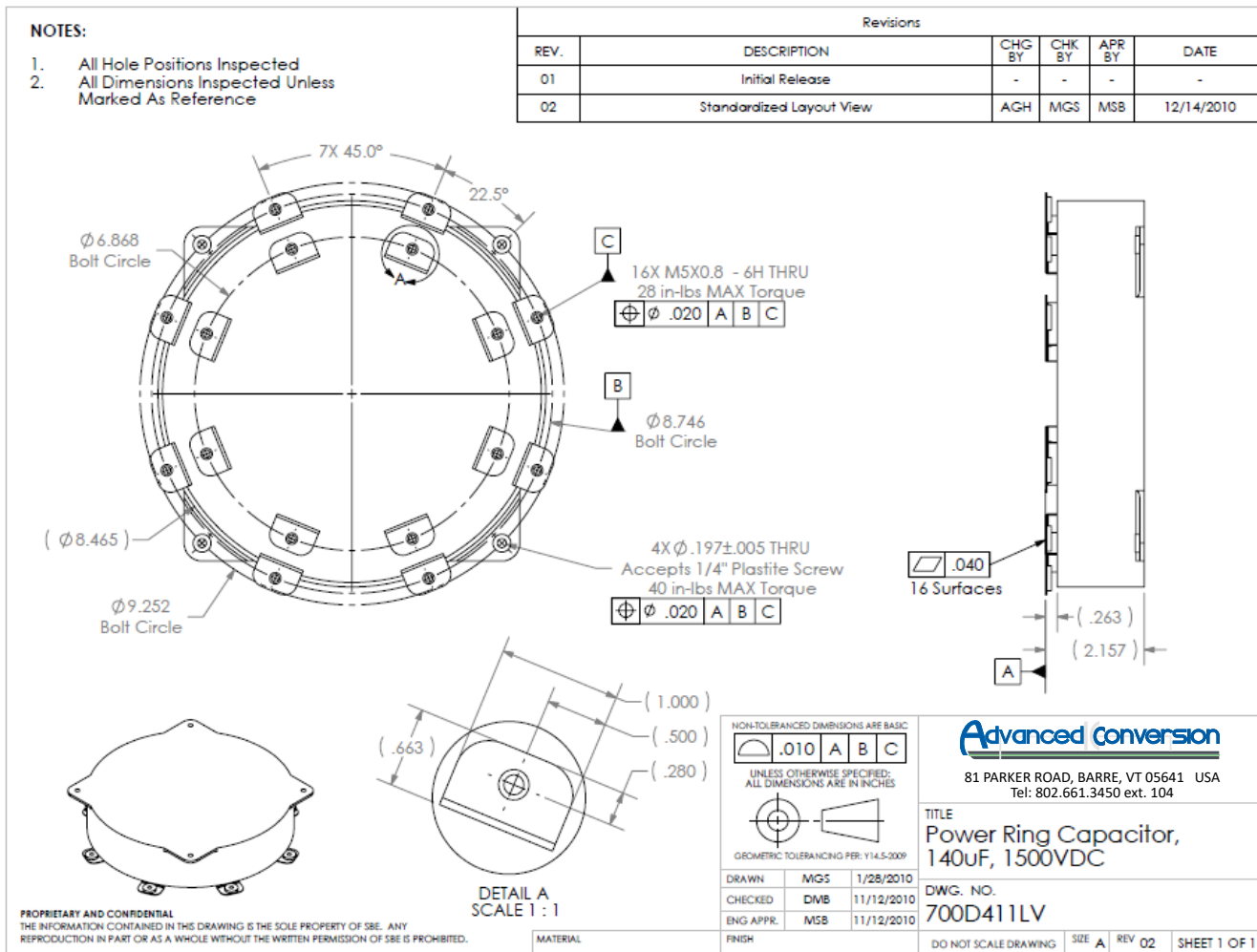
## Mechanical Specifications

**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  
 700D411 Unique part number  
 140  $\mu$ F  $\pm$ 10% Capacitance value and tolerance  
 1500 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.



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