

## Technical Data Sheet



### Electrical Specifications

**Capacitance/Tolerance:** 500  $\mu$ F,  $\pm$ 10%

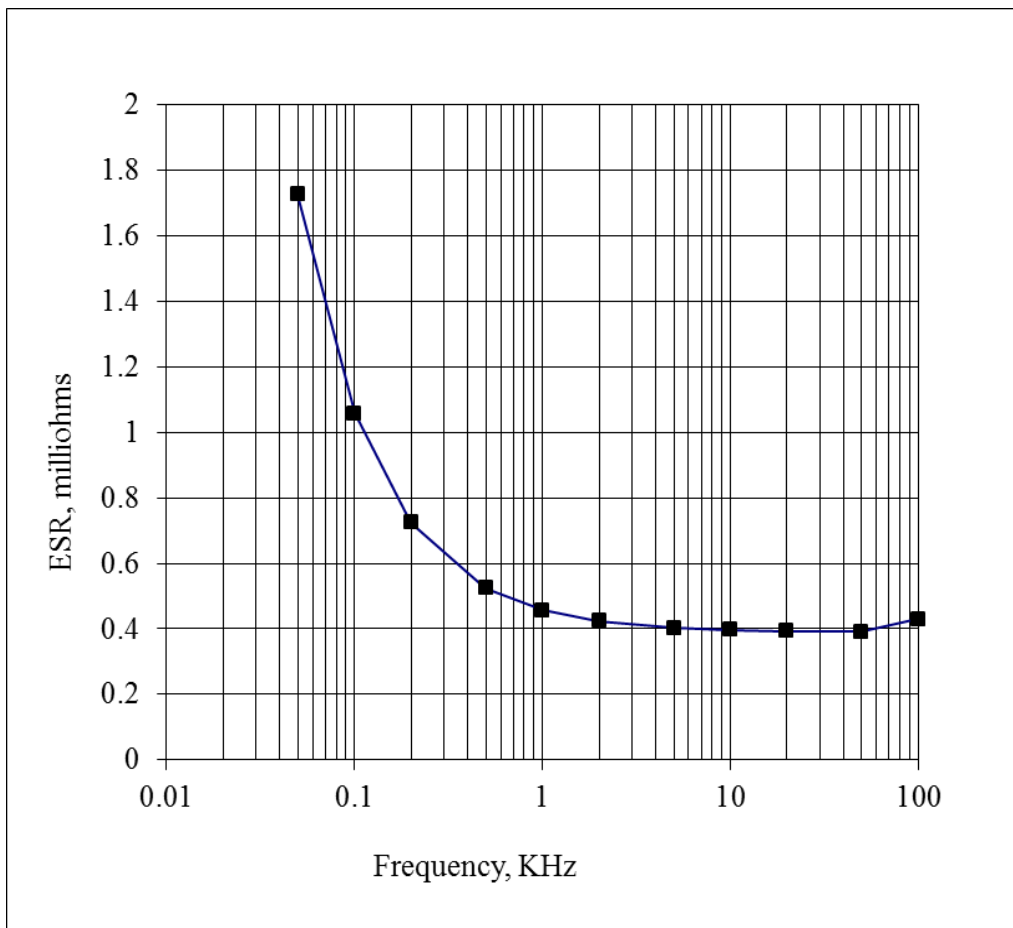
**DC Voltage Rating:** 700 VDC

**Dielectric/Construction:** Metallized Polypropylene film. Single section design

#### Dielectric

**Withstand Voltage:** Units 100% tested at a DC potential of 875 Volts for two minutes at +25°C

#### ESR vs. Frequency:



## Electrical Specifications (cont'd)

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

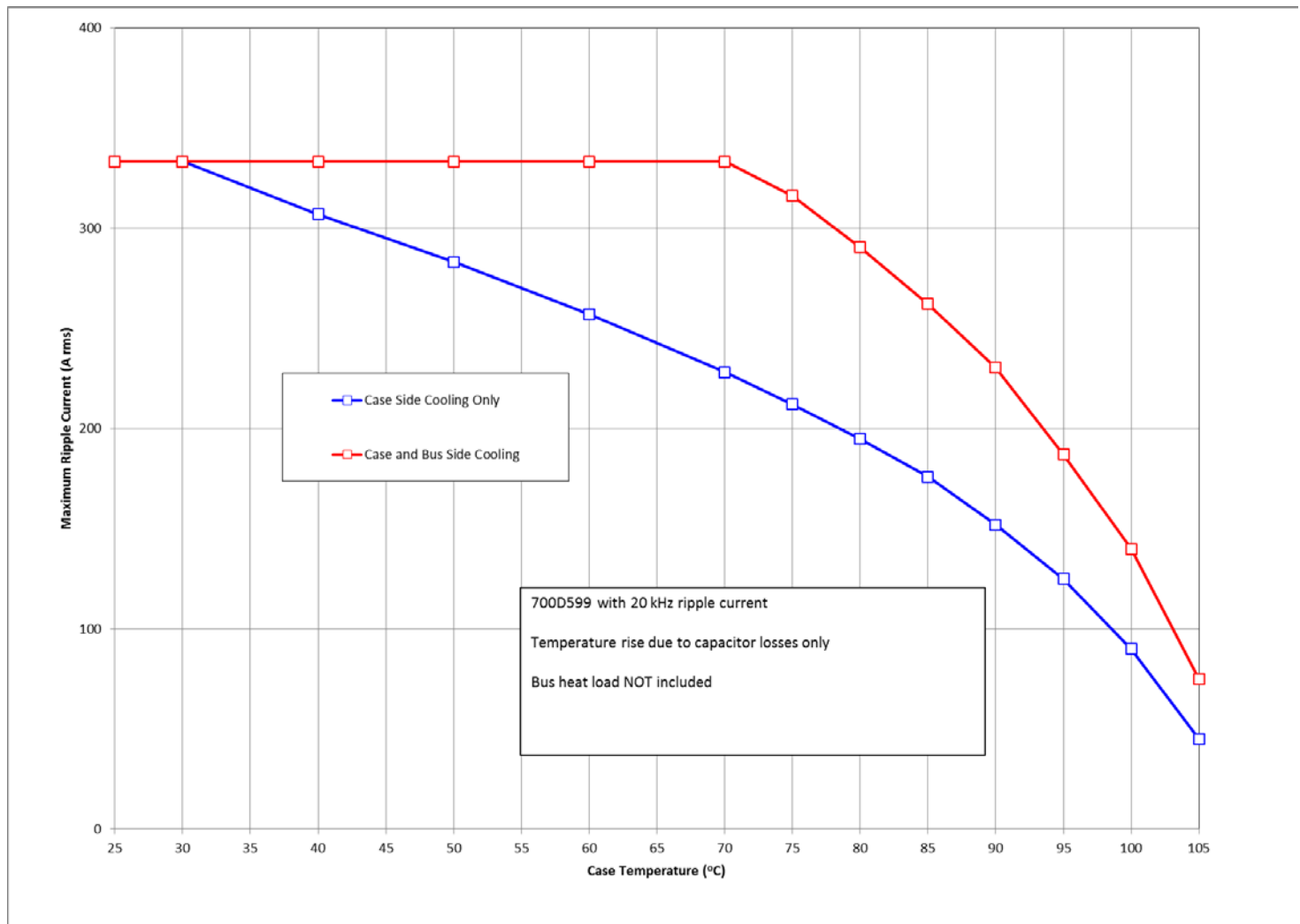
**Thermal resistance:** 1.52°C/W (case side cooling only)  
0.67°C/W (case and bus side cooling)

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

**Voltage, Temperature De-rating:** De-rate voltage linearly to 500 Volts from +85°C to +107°C, with respect to hotspot temperature

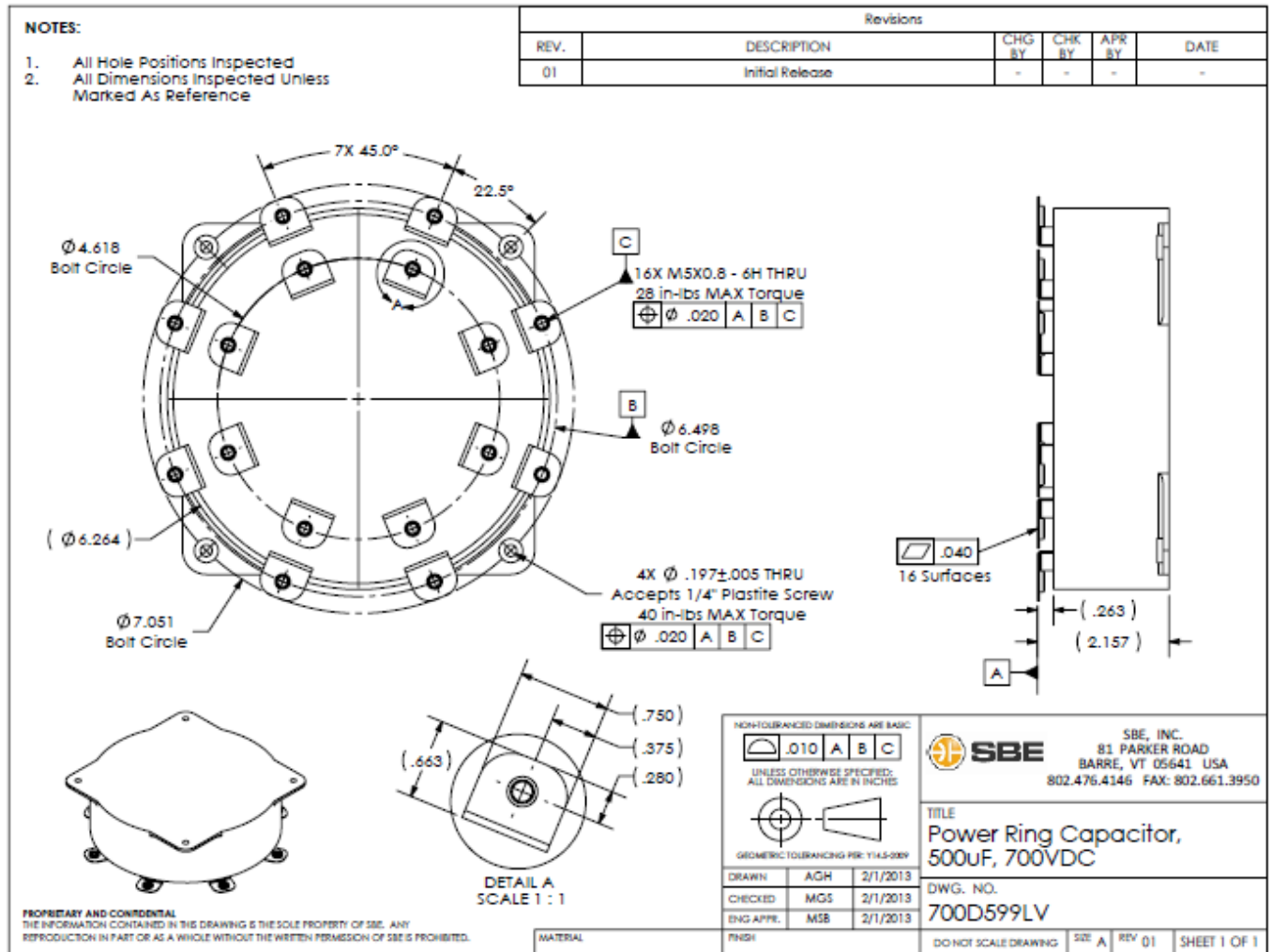
**System Fault Current Rating:** 10,000 Amps maximum (external to the capacitor)

**RMS Current Rating:**



# Mechanical Specifications

<b>Dimensions:</b>	See Layout Drawing below for details.	
<b>Terminals:</b>	Tin plated copper, 0.032" thick	
<b>Encapsulation:</b>	Molded polymeric case potted with RTV silicone	
<b>Marking:</b>	SBE 700D599 500 $\mu$ F $\pm$ 10% 700 VDC yyww-lot#-unit	SBE Company Identification Unique SBE Part Number Capacitance value and Tolerance DC Voltage Rating Serial Number (date code, lot number, unit number)



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