Technical Data Sheet

Electrical Specifications

Capacitance/Tolerance: 500 µF, ±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:

![Graph showing ESR vs. Frequency](image)
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

Dimensions: See Layout Drawing below for details.
Terminals: Tin plated copper, 0.032" thick
Encapsulation: Molded polymeric case potted with RTV silicone
Marking:

- **SBE** SBE Company Identification
- **700D599** Unique SBE Part Number
- **500 µF ±10%** Capacitance value and Tolerance
- **700 VDC** DC Voltage Rating
- **yyww-lot#-unit** Serial Number (date code, lot number, unit number)

NOTES:

1. All Hole Positions Inspected
2. All Dimensions Inspected Unless Marked As Reference

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