Technical Data Sheet

Electrical Specifications

Capacitance/Tolerance: 75 µF, ±10%

DC Voltage Rating: 1500 VDC

Dielectric/Construction: Metallized Polypropylene film. Single section design

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

ESR vs. Frequency:

![Graph showing ESR vs. Frequency](image-url)
Electrical Specifications (cont’d)

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

Thermal resistance: 1.48°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 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)

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
700D410 Unique SBE Part Number
75 μF ±10% Capacitance value and Tolerance
1500 VDC DC Voltage Rating
yyww-lot#-unit Serial Number (date code, lot number, unit number)