Power Ring Film Capacitor™
800 µF, 450 Vdc

The 700D80794-600 Power Ring is a 450 Vdc, 800 µF DC Link Capacitor with an ESR of 188 micro-Ohms at 20 kHz and an ESL of less than 5 nH.

Electrical Specifications

- **SBE Part #:** 700D80794-600
- **Capacitance/Tolerance:** 800 µF ±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 in a suitable laminar 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:

![Typical ESR vs. Frequency Graph]

RMS Current Rating:

![RMS Current Rating Graph]

SBE reserves the right to amend design data

At the Leading Edge of Film Capacitor Technology®
Mechanical Specifications

Dimensions: See layout drawing for details
Terminals: Tin plated copper, 0.032” thick
Encapsulation: Molded polymeric case, potted with RTV silicone

Marking:
- SBE 700D600: SBE company identification
- Unique SBE part number
- Capacitance value and tolerance
- 450 Vdc: DC voltage rating
- yyww-lot#-unit: Serial number (date code, lot number, unit number)

Layout Details:
Contact SBE Inc. to discuss your specific requirements.