Power Ring Film Capacitor™
500 µF, 450 Vdc

The 700D50794-529 Power Ring is a 450Vdc, 500 µF DC Link Capacitor with an ESR of 320 micro-Ohms at 20kHz and an ESL of less than 5nH.

Electrical Specifications

SBE Part #: 700D50794-529
Capacitance/Tolerance: 500 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: 3.09°C/W (case side cooling only) 1.26°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:

RMS Current Rating:

SBE reserves the right to amend design data
Mechanical Specifications

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

Marking:
- SBE
- 700D529 Unique SBE part number
- 500 µF ±10% 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.

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