Power Ring Film Capacitor™
260 µF, 750 Vdc

The 700A26797-245 Power Ring assembly is a 260 µF, 750 Vdc dual-winding DC Link Capacitor integrated with a laminar bus. The assembly has an ESR of 900 micro-Ohms at 20kHz, an ESL of less than 8nH and a life of more than 10,000 hours at a typical drive cycle for an 80-120 kW inverter.

Electrical Specifications

<table>
<thead>
<tr>
<th>SBE Part #</th>
<th>700A26797-245</th>
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</thead>
<tbody>
<tr>
<td>Capacitance/Tolerance</td>
<td>260 µF ±10%</td>
</tr>
<tr>
<td>DC Voltage Rating</td>
<td>750 Vdc</td>
</tr>
<tr>
<td>Dielectric</td>
<td>Metallized polypropylene film</td>
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<tr>
<td>ESL at IGBT Terminals</td>
<td>Less than 8 nH</td>
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</tbody>
</table>

Typical ESR vs. Frequency: 900 µΩ at 20 kHz
Continuous DC Voltage: 750 Vdc up to 85°C (de-rate linearly from 750 to 500 Vdc from 85°C to 105°C)
Dielectric Withstand: Units 100% tested at DC voltage of 950 Vdc for 2 minutes at 25°C
Operating Temperature: -40°C to +105°C
Maximum Peak Current: 200 Arms (not to exceed 2 minutes and 85°C hotspot at 750 Vdc)

RMS Current Rating

Ripple current versus case temperature for 10,000 hour life with continuous operation at 700 Vdc.
Mechanical Specifications

Dimensions: See layout drawing for details

Bus Structure: Tin plated copper, 0.060" (1.50 mm) thick

Packaging: Polycarbonate enclosure encapsulated with RTV

IGBT Connection Type: Thru-hole connections for Infineon HP Drive™

Construction: Dual windings integrated to a laminar bus

Marking:
- SBE: SBE company identification
- 700A245: SBE “short form” part number
- 260 μF ±10%: Capacitance value and tolerance
- 750 Vdc: DC voltage rating
- yyww-lot#-unit: Serial number (date code, lot number, unit number)

Contact SBE Inc. to discuss your specific requirements.