

## Power Ring Film Capacitor 260 $\mu$ F, 750 Vdc

The 700A26797-245 Power Ring assembly is a 260  $\mu$ F, 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

**Part #:** 700A26797-245  
**Capacitance/Tolerance:** 260  $\mu$ F  $\pm$ 10%  
**DC Voltage Rating:** 750 Vdc  
**Dielectric:** Metallized polypropylene film  
**ESL at IGBT Terminals:** Less than 8 nH

**Typical ESR vs. Frequency:** 900  $\mu$  $\Omega$  at 20 kHz

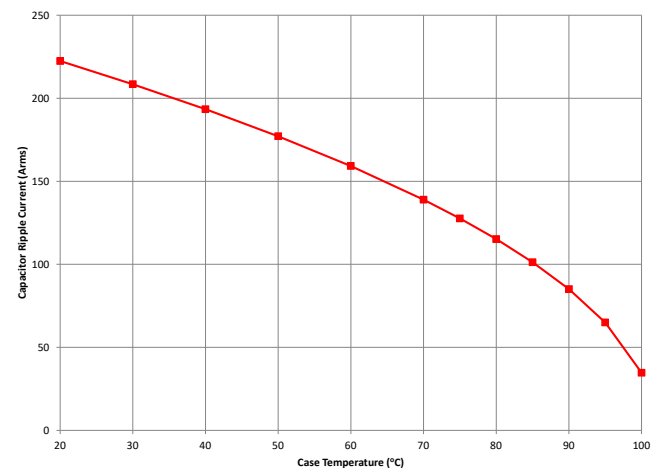
**Continuous DC Voltage Rating:** 750 Vdc up to 85°C (de-rate linearly from 750 to 500 Vdc from 85°C to 105°C)

**Dielectric Withstand Test Voltage:** 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

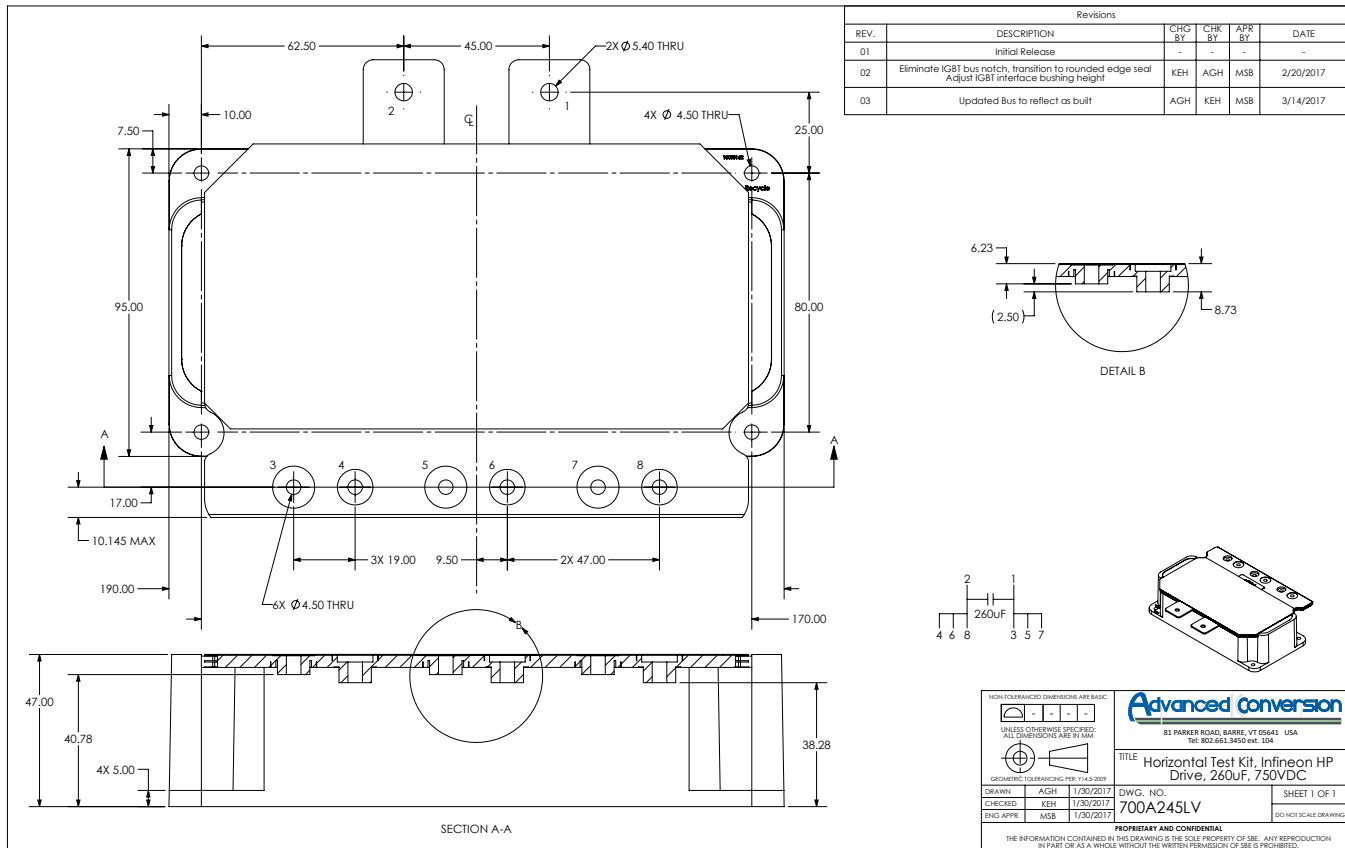
**IGBT Connection Type:** Thru-hole connections for Infineon HP Drive™

**Construction:** Dual windings integrated to a laminar bus

### Marking:

APCS	company identification
700A245	"short form" part number
260 $\mu$ F $\pm$ 10%	Capacitance value and tolerance
750 Vdc	DC voltage rating
yyww-lot#-unit	Serial number (date code, lot number, unit number)

### Layout Details:



Contact Advanced Conversion to discuss your specific requirements.



ISO 9001  
QMI-SAI Global

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Advanced Conversion reserves the right to amend design data