

Power Ring Film Capacitor 500 μ F, 500 Vdc

The 700A50795-205 Power Ring assembly is a 500 μ F, 500 Vdc dual-winding DC Link Capacitor integrated with a laminar bus. The assembly has an ESR of 410 $\mu\Omega$ at 20 kHz, an ESL less than 12 nH, and a life of more than 10,000 hours at a typical drive cycle for an 80-120 kW inverter.



Electrical Specifications

- Part #:** 700A50795-205
- Capacitance/Tolerance:** 500 μ F \pm 10%
- Dielectric:** Metallized polypropylene film
- ESL at IGBT Terminals:** Less than 12 nH
- Typical ESR vs. Frequency:** 410 $\mu\Omega$ at 20 kHz
- Continuous DC Voltage Rating:** 500 Vdc up to 85°C (de-rate linearly from 500 Vdc to 300 Vdc from 85°C to 105°C)
- Maximum DC Voltage:** Units 100% tested at DC voltage of 600 Vdc for 2 minutes at 25°C
- Operating Temperature:** -40°C to +105°C
- Maximum Peak Current:** 250 Arms (not to exceed 2 minutes and 85°C hotspot at 500 Vdc)

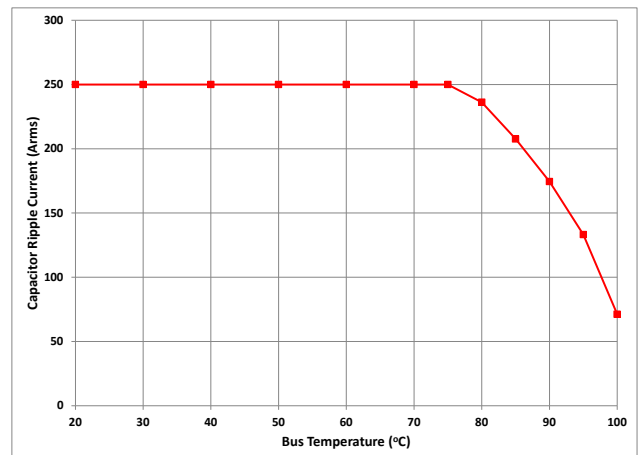
Mechanical Specifications

- Dimensions:** See layout drawing for details
- Bus:** Tin plated copper, 1.50 mm thick
- Encapsulation:** Un-encapsulated
- IGBT Connection Type:** Thru-hole connections for Infineon HP Drive™
- Construction:** Dual windings integrated to a laminar bus
- Marking:**

APCS	APCS company identification
700A205	"short form" part number
500 μ F \pm 10%	Capacitance value and tolerance
500 Vdc	DC voltage rating
yyww-lot#-unit	Serial number (date code, lot number, unit number)

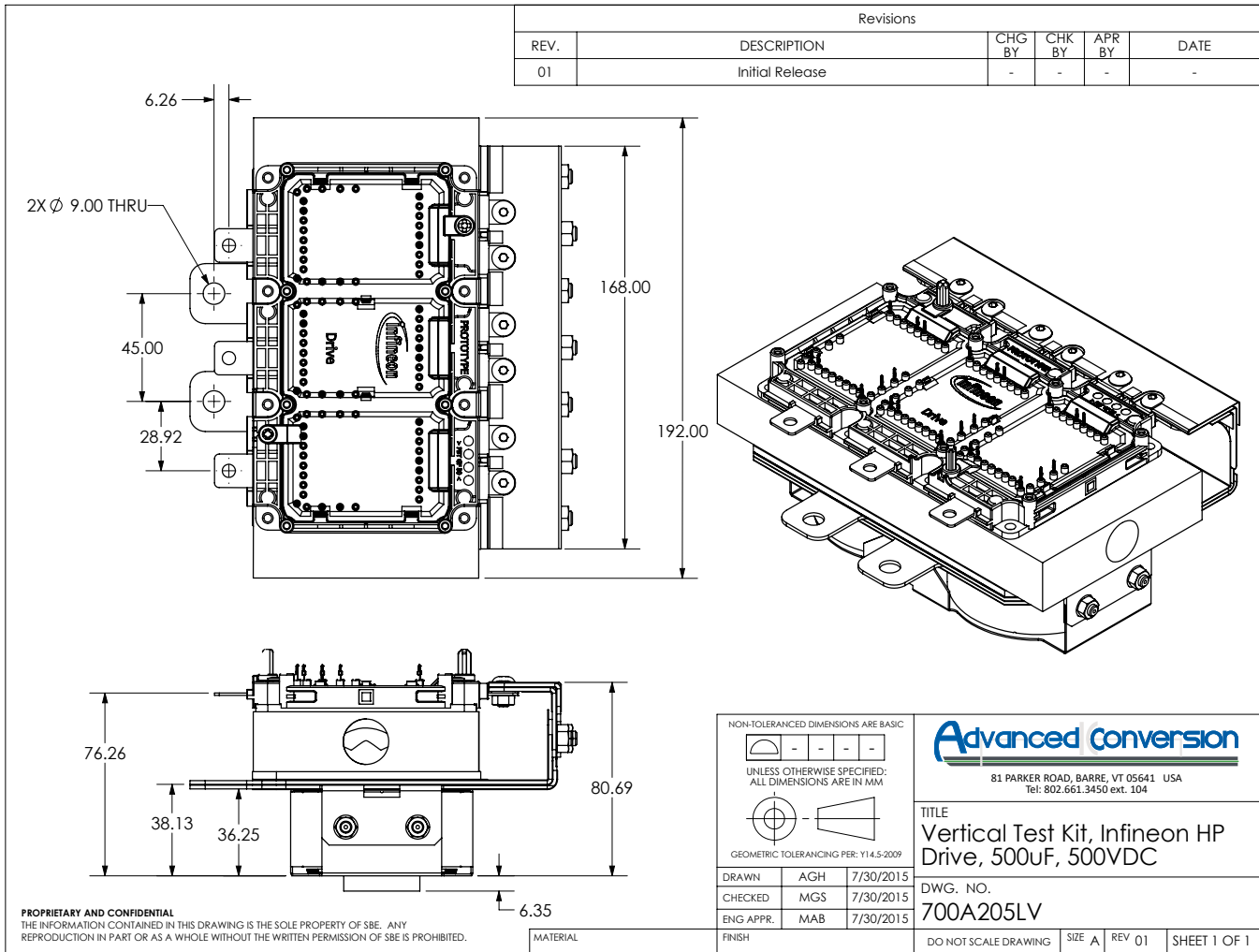
Rating Curve:

Ripple current versus bus temperature for 10,000 hour life with continuous operation at 450V.



Advanced Conversion reserves the right to amend design data

Layout Details:



Note: HP Drive Module and Cooling Plate Not Included

Contact Advanced Power Conversion Solutions Inc. to discuss your specific requirements.



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