PRELIMINARY VERSION

Integrated Capacitor/bus assembly 320 µF, 750 Vdc with DuPont Teijin PEN HV[™] film for operation to 125°C

The 906A32797-105 Power Ring assembly is a 320 μ F, 750 Vdc dual-winding DC Link Capacitor integrated with a laminar bus. The assembly has an ESR of 840 μ Ω 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 #:	906A32797-105
Part #:	900A32/9/-105

Capacitance/Tolerance: 320 µF ±10%

Dielectric: Metallized high temp film

ESL at IGBT Terminals: Less than 8 nH

Continuous DC Voltage:750 Vdc up to 125°C (derate linearly from 750 Vdc to 450 Vdc from 125°C to 150°C hotspot)

Typical ESR vs. Frequency: 840 $\mu\Omega$ at 20 kHZ

Maximum DC Voltage: Units 100% tested at DC voltage of 940 Vdc for 2 minutes at 25°C

Operating Temperature: -40°C to +125°C

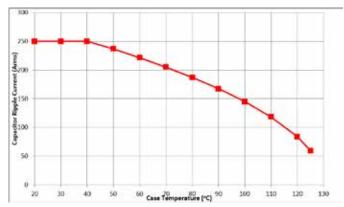
Maximum Peak Current: 250 Arms (not to exceed 2 minutes and 130°C hotspot at 750 Vdc)

Operating Ranges700 V < Vdc < 800 V(Typical Drive Cycle): $75Arms < I_{ripple} < 150Arms$ $50^{\circ}C < T_{coolant} < 125^{\circ}C$

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 HYBRIDPACK [™] Drive Module
Construction:	Dual windings integrated to a laminar bus

RMS Current Rating



Ripple current versus average case temperature to achieve 10,000 hour life for continuous operation.

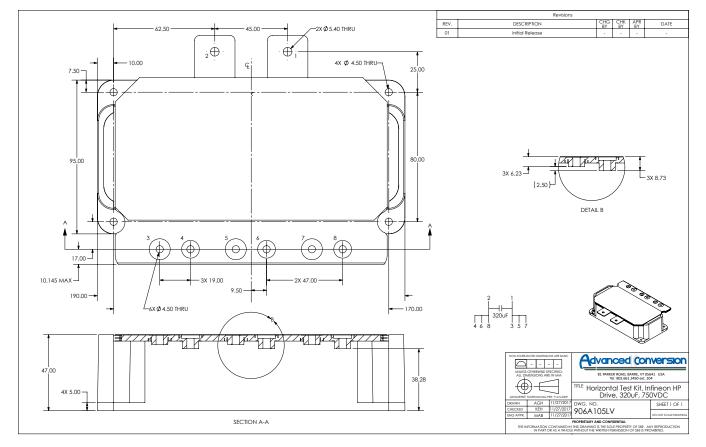
Advanced Conversion reserves the right to amend design data

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Marking:

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APCS	company identification
906A105	"short form" part number
320 μF ±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.



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