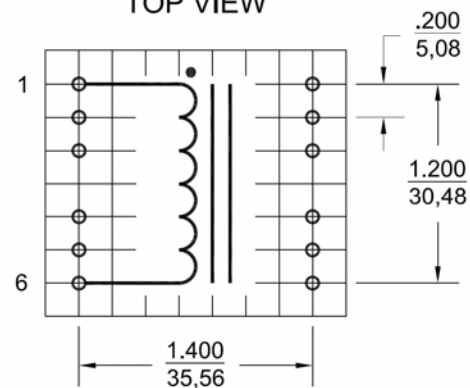
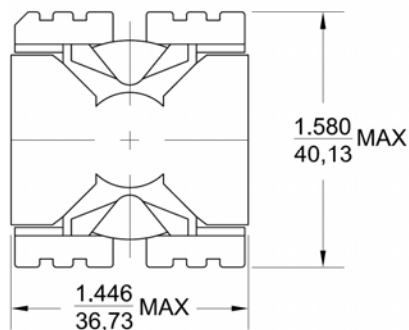


HYPER-XMT™ HXLB40002 BOOST INDUCTOR

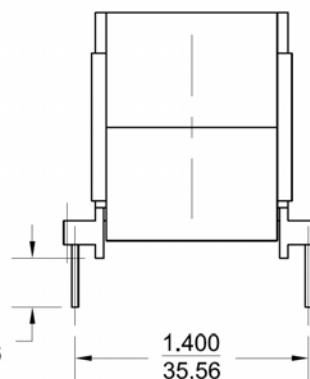
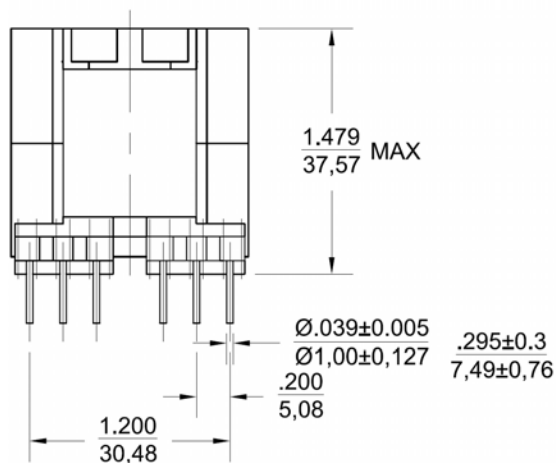


- Designed for boost converters with 100 kHz switching frequency
- Provides 800 W (400 V, 2 A) output from 120 VDC input
- Dissipation < 1% of output
- Litz-Wire free design
 - Reduces DC dissipation
 - Increases heat transfer
 - Reduces cost
- Utilizes patent-pending Hyper-X Magnetic Technology™ winding optimization
- RoHS Compliant†

PIN PATTERN
TOP VIEW



Dimensions: Inches
mm



Tolerances: ± 0.010" / 0,254mm
unless otherwise
specified.

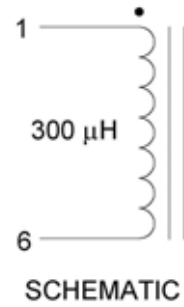


thinking big. designing small. magnetics to the highest power.

HYPER-XMT™ HXLB40002 BOOST INDUCTOR

ELECTRICAL SPECIFICATIONS (@ +25°C)†:

IND: 300 μ H \pm 5% @ 100 kHz, 0 ADC
 275 μ H MIN @ 100 kHz, 6.7 ADC
 DCR: 0.095 Ω Max
 SRF: 800 kHz Min
 ET: 1,000 V μ S Min
 DWV: 2500 V_{RMS} Winding to Core
 OPERATING TEMPERATURE: -40°C to +125°C
 ENERGY CAPACITY: 6,500 μ J Min



TYPICAL DISSIPATION FOR 800 W OUTPUT (400 V, 2 A) 100 kHz SWITCHING FREQUENCY (@ +25°C)		
DUTY CYCLE	DISSIPATION (W)	DISSIPATION OF OUTPUT POWER (%)
0.20	1.29	0.16
0.30	1.97	0.25
0.40	2.60	0.33
0.50	3.16	0.40
0.60	3.80	0.47
0.65	4.29	0.54
0.70	5.09	0.64



† RoHS compliant version designated HXTR18002R.

‡ Contact Tabtronics for application specific installation recommendations.

Working together, we will be surprisingly powerful.

We look forward to your call or email and invite you to learn more about our people, products, technologies, and philosophies at www.tabtronics.com.

About Tabtronics, Inc.

Tabtronics specializes in creating and commercializing advanced technology for electromagnetic components. The company's technology is relied upon by military, avionics, and high technology customers.

Tabtronics has 25 years experience in direct manufacture of electromagnetic components, and also licenses its technology to other manufacturers and system integrators. The firm's continuing focus is the development of innovative methods to provide efficient power through smaller components.



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