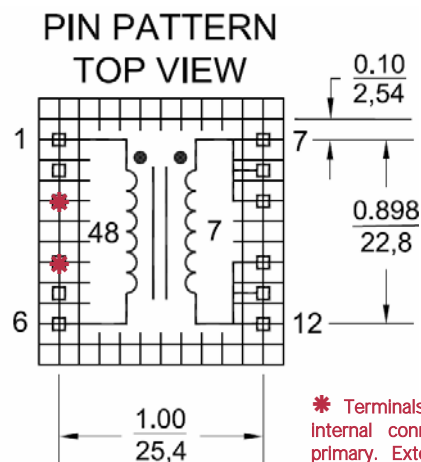
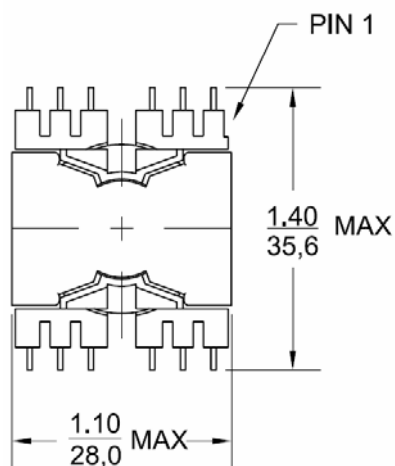


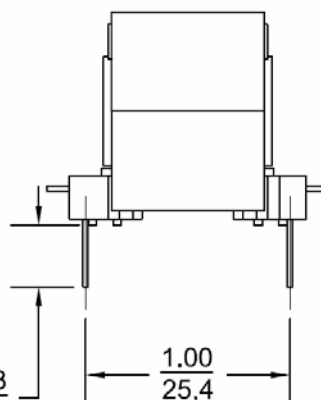
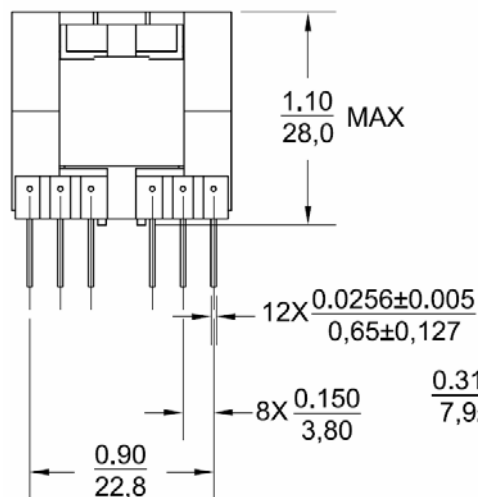
HYPER-XMT™ HXTF02005 FORWARD CONVERTER TRANSFORMER



- Designed for Forward Converters with 100kHz switching frequency
- Provides 100W (20V | 5A) output from 400VDC input
- Dissipation less than 1% of output
- 48:7 turns ratio
- Utilizes patent-pending Hyper-X Magnetic Technology™ winding optimization
- RoHS Compliant†



* Terminals 3 and 4 are used for internal connections of transformer primary. External circuit connections must provide appropriate isolation for these terminals.



Dimensions: Inches
mm

Tolerances: $\pm 0.010"$ / 0,254mm
unless otherwise specified.

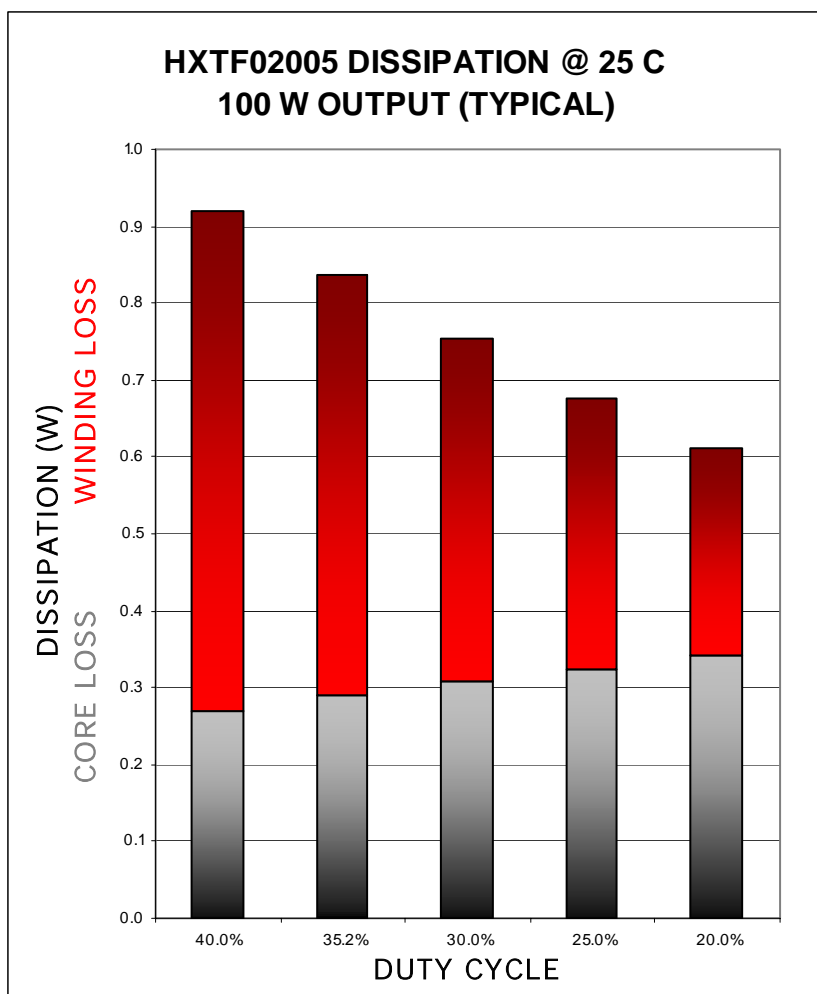
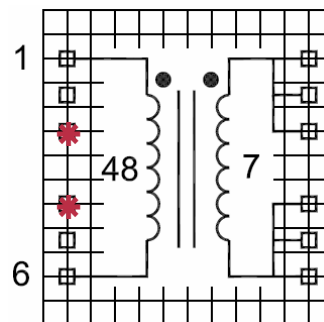


thinking big. designing small. magnetics to the highest power.

HYPER-XMT™ HXTF02005 FORWARD CONVERTER TRANSFORMER

ELECTRICAL SPECIFICATIONS (@ +25°C)†:

DCR: Primary (1-6) = 1.360 Ω Max
 Secondary (7,8,9 - 10,11,12) = 0.038 Ω Max
 OCL: Primary (1-6) = 15mH Min @ 100kHz
 SRF: 250 kHz Min
 LEAKAGE IND: 11μH Max @ 100kHz
 ET: Primary (1-6) = 2500 VμS Min (unidirectional)
 DWV: 2500 V_{RMS} Primary - Secondary
 2500 V_{RMS} Winding to Core
 OPERATING TEMPERATURE: -40°C to +125°C



† RoHS compliant version designated HXTF02005R.

‡ Contact Tabtronics for application specific installation recommendations.

© 2005 Tabtronics Inc. All rights reserved. **Tabtronics Inc.** is a trademark and other Tabtronics product and service names and slogans referenced in this document, including Hyper-X Magnetics Technology and Hyper-XMT are trademarks or registered trademarks of Tabtronics Inc. (TT). All other company, product or service names referenced herein are used for identification purposes only and may be trademarks of their respective owners. TT reserves the right to make changes without further notice to any products herein. TT makes no warranty, representation or guarantee regarding the suitability of its products for any particular purpose, nor does TT assume any liability arising out of the application of use of any product or circuit, and specifically disclaims any and all liability, including without limitation special, consequential or incidental damages. "Typical" parameters which may be provided in TT data sheets and/or specifications can and do vary in different applications and actual performance may vary over time. All operating parameters, including "Typicals" must be validated for each customer application by customer's technical experts. TT does not convey any license under its patent rights nor the rights of others. TT products are not designed, intended, or authorized for use as components in systems intended for surgical implant into the body, or other applications intended to support or sustain life, or for any other application in which the failure of the TT product could create a situation where personal injury or death may occur. Should Buyer purchase or use TT products for any such unintended or unauthorized application, Buyer shall indemnify and hold TT and its officers, employees, subsidiaries, affiliates, and distributors harmless against all claims, costs, damages, and expenses, and reasonable attorney fees arising out of, directly or indirectly, any claim of personal injury or death associated with such unintended or unauthorized use, even if such claim alleges that TT was negligent regarding the design or manufacture of the part. TT is an Equal Opportunity/Affirmative Action Employer. This literature is subject to all applicable copyright laws and is not for resale in any manner.

**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.



P.O. Box 128
 Geneseo, New York
 14454-0128

toll-free: 888-876-6424
 voice: 585-243-4331
 fax: 585-243-3831

e-mail: HXTF02005@tabtronics.com

www.tabtronics.com

