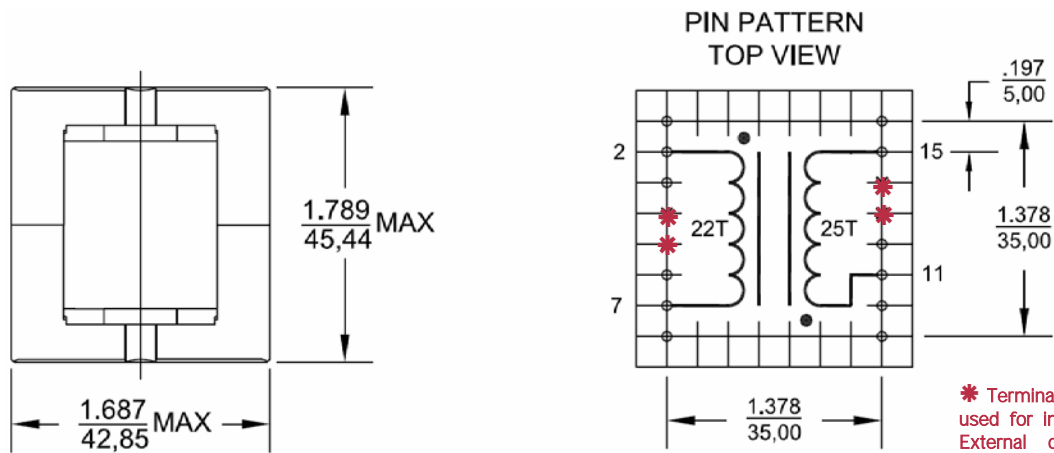


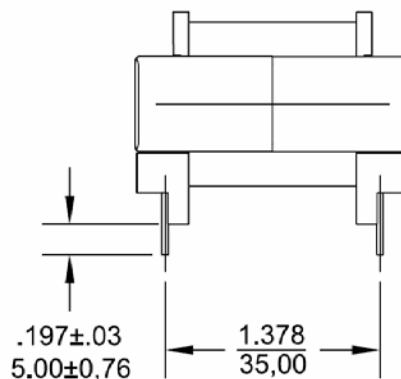
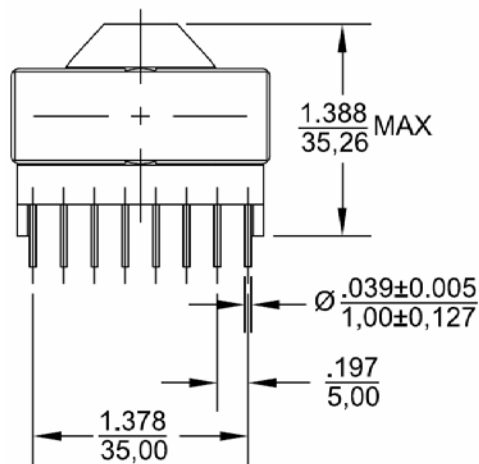
HYPER-XMT™ HXTR18002 RESONANT TRANSFORMER



- Designed for power supplies using High Performance Resonant Mode Controllers
- High efficiency at high frequencies
- Litz-Wire free design
 - reduces leakage inductance
 - improves heat transfer
 - reduces cost
- Utilizes patent-pending Hyper-X Magnetic Technology™ winding optimization
- Frequency Range: 75 kHz - 500 kHz
- RoHS Compliant†



* Terminals 3, 4, 13 & 14 are used for internal connections. External circuit connections must provide appropriate isolation for these terminals.



Dimensions: Inches
mm

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

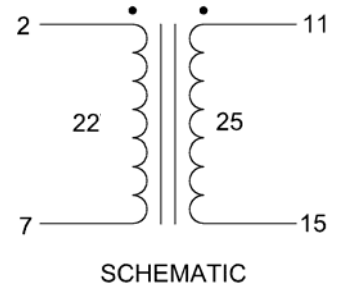


thinking big. designing small. magnetics to the highest power.

HYPER-XMT™ HXTR18002 RESONANT TRANSFORMER

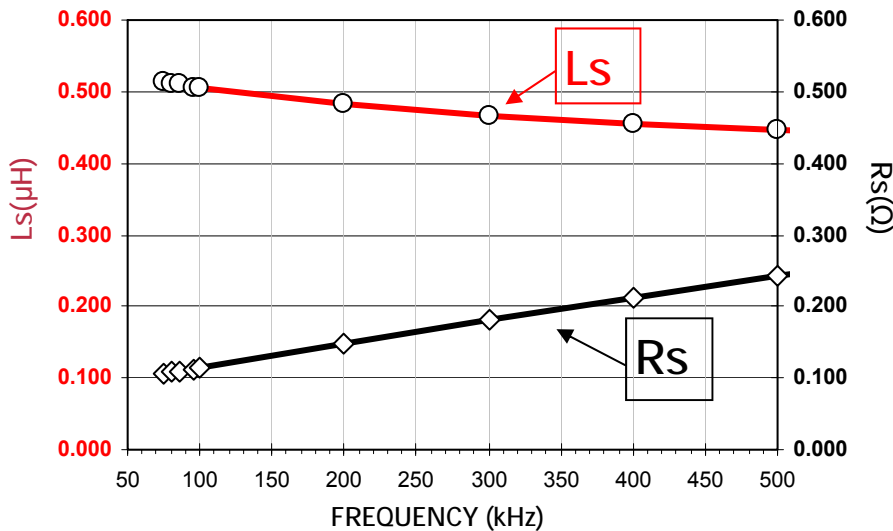
ELECTRICAL SPECIFICATIONS (@ +25°C)[†]:

- DCR: Primary (2-7) = 0.045 Ω Max
Secondary (11-15) = 0.053 Ω Max
- OCL: Primary (2-7) = 600 μH Min @ 75 kHz
- SRF: 800 kHz Minimum
- ET: Primary (2-7) = 1,250 VμS Min
- DWV: 2500 V_{RMS} Primary - Secondary
2500 V_{RMS} All Windings to Core
- OPERATING TEMPERATURE: -40°C to +125°C
- VA CAPACITY: Application dependent.[‡]



TYPICAL PRIMARY EQUIVALENT LEAKAGE INDUCTANCE & AC RESISTANCE OVER FREQUENCY RANGE

FREQUENCY (kHz)	Ls (μH)	Rs (Ω)
75	0.514	0.106
80	0.512	0.108
96	0.506	0.113
100	0.505	0.114
200	0.482	0.148
300	0.467	0.182
400	0.456	0.213
500	0.447	0.243



[†] 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.

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

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

toll-free: 888-876-6424
voice: 585-243-4331
fax: 585-243-3831
e-mail: HXTR18002@tabtronics.com
www.tabtronics.com

© 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.

