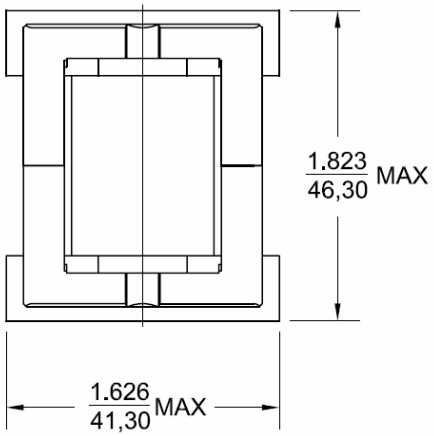
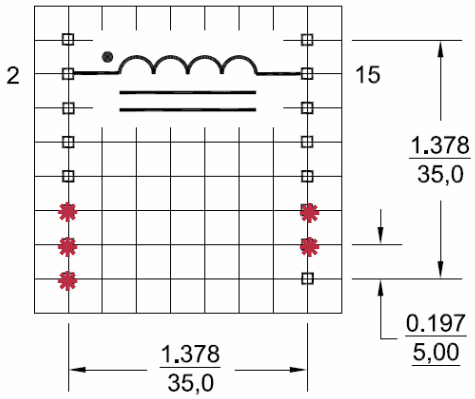
HYPER-XMT™ HXLR18002 RESONANT INDUCTOR

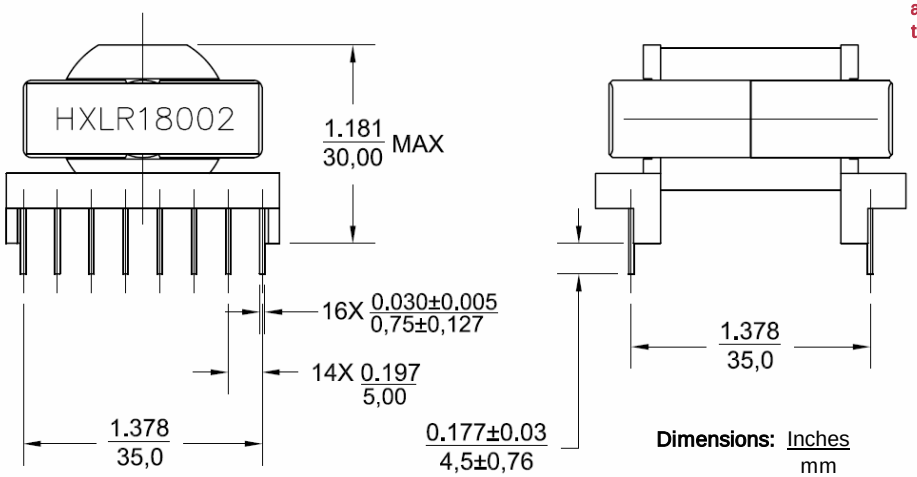
- Designed for power supplies using High Performance Resonant Mode Controllers
- High efficiency at high frequencies
- Optimized conductor design
  - improves heat transfer
  - reduces cost
- Utilizes patent-pending Hyper-X Magnetic Technology™ winding optimization
- Frequency Range: 75 kHz - 500 kHz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



PIN PATTERN
TOP VIEW



✱ Terminals 6, 7, 8, 10, & 11 are used for internal connections. External circuit connections must provide appropriate isolation for these terminals.



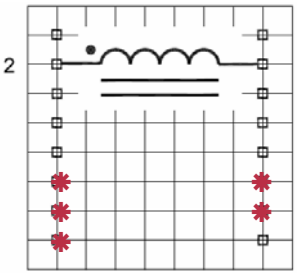
Dimensions: Inches / mm

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

TABTRONICS

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

HYPER-XMT™ HXLR18002 RESONANT INDUCTOR

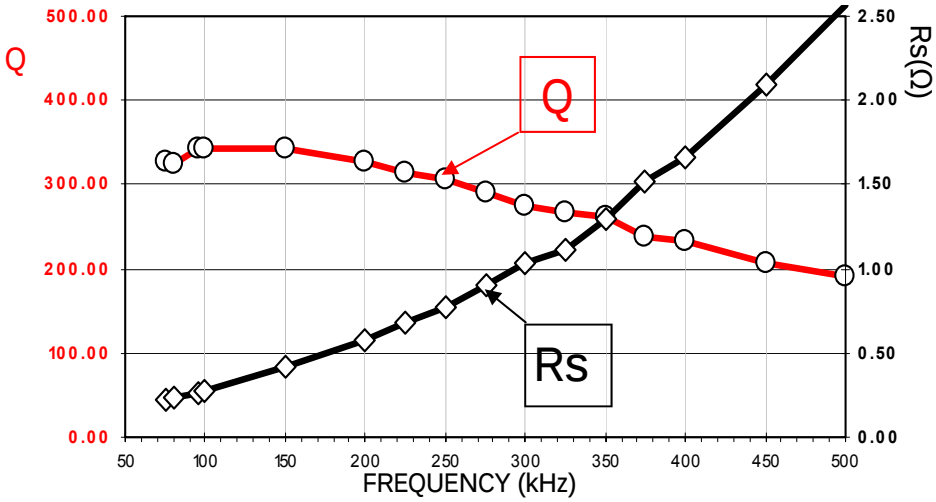


ELECTRICAL SPECIFICATIONS (@ +25ºC)‡:

IND: 150 µH ± 8% @ 75 kHz
DCR: 0.126 Ω Max
SRF: 2.0 MHz Min
ET: 1,100 VµS Min
DWV: 2500 V_{RMS} Winding to Core
HIGH LEVEL DISSIPATION:
2.10 W Typical @ 75 kHz, 162 V_{RMS}
0.18 W Typical @ 500 kHz, 108 V_{RMS}
OPERATING TEMPERATURE: -40°C to +125°C
ENERGY CAPACITY: 400 µJ Min @ 75 kHz

TYPICAL QUALITY FACTOR (Q) AND EQUIVALENT AC RESISTANCE OVER FREQUENCY RANGE @ 1.0 V_{RMS} (@ 25ºC)

FREQUENCY (kHz)	Q	Rs (Ω)
75	327	0.216
80	325	0.231
96	342	02.65
100	342	0.271
150	343	0.416
200	328	0.577
225	313	0.682
250	306	0.773
275	291	0.903
300	276	1.033
325	266	1.116
350	261	1.290
375	237	1.156
400	232	1.657
450	207	2.089
500	190	2.559



† *RoHS compliant version designated HXLR18002R.*
‡ *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: HXLR18002@tabtronics.com
www.tabtronics.com

Certified ISO 9001 : 2000 by BVQI