



RoHS Compliant

ISO9001:2000
CERTIFIED

High Isolation IGBT Drive Transformers

Benefits:

- Controls IGBT's from 500V to 3000V
- Controls Multiple IGBT Systems to 9000V
- Input Power to 350VA
- Enhanced System Stability by reducing transformer parasitics
- Increased Speed to Market using pre-tested design platforms
- Reduced System Cost by providing higher reliability at a competitive part cost
- Designed to Meet your System Requirements

Typical Applications:

- Alternative Energy
- High Voltage Applications
- Medium Voltage Converters
- Motor Drives
- Railroad Power Supplies
- Rail Traction Control Systems

The Bicron Advantage:

- Over 30 years in the design, development, and manufacture of Corona Free Magnetics.
- Lean Manufacturing
- 100% test for partial discharge

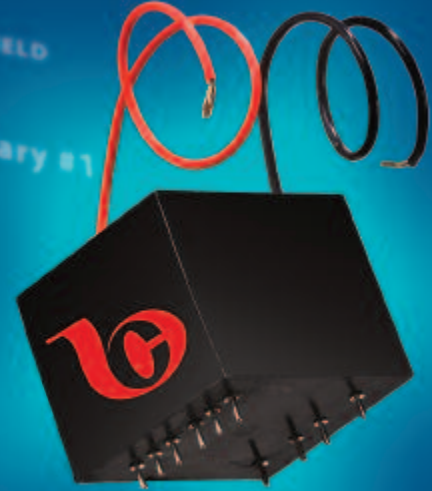
"Excellence Through Teamwork"



BICRON Electronics Company

50 Barlow Street • Canaan, CT 06018
800 624-2766 • 860 824-5125
www.BicronMagnetics.com

NEW!
**COST
EFFECTIVE!**



Gate Drive Transformer Operation:

- Rugged design for high vibration/multi-axis applications
- Each part tuned to customer's application.
- Part characteristics designed around your needs.
- Wide voltage and power ranges adapt to many applications
- Controlled leakage inductance
- Minimum in-rush current

Specifications:

- Operating Voltage: 500V — 3000V
- Input Power Range: To 350VA
- Operating Frequency: 10KHz — 500KHz
- Input Voltage Range: Up to 300V peak square wave
- Corona: <10pC @3.3KV
- BIL Rating: 14KV
- HIPOT: 8KV_{rms} @60 Hz for 60s with <2mA leakage current

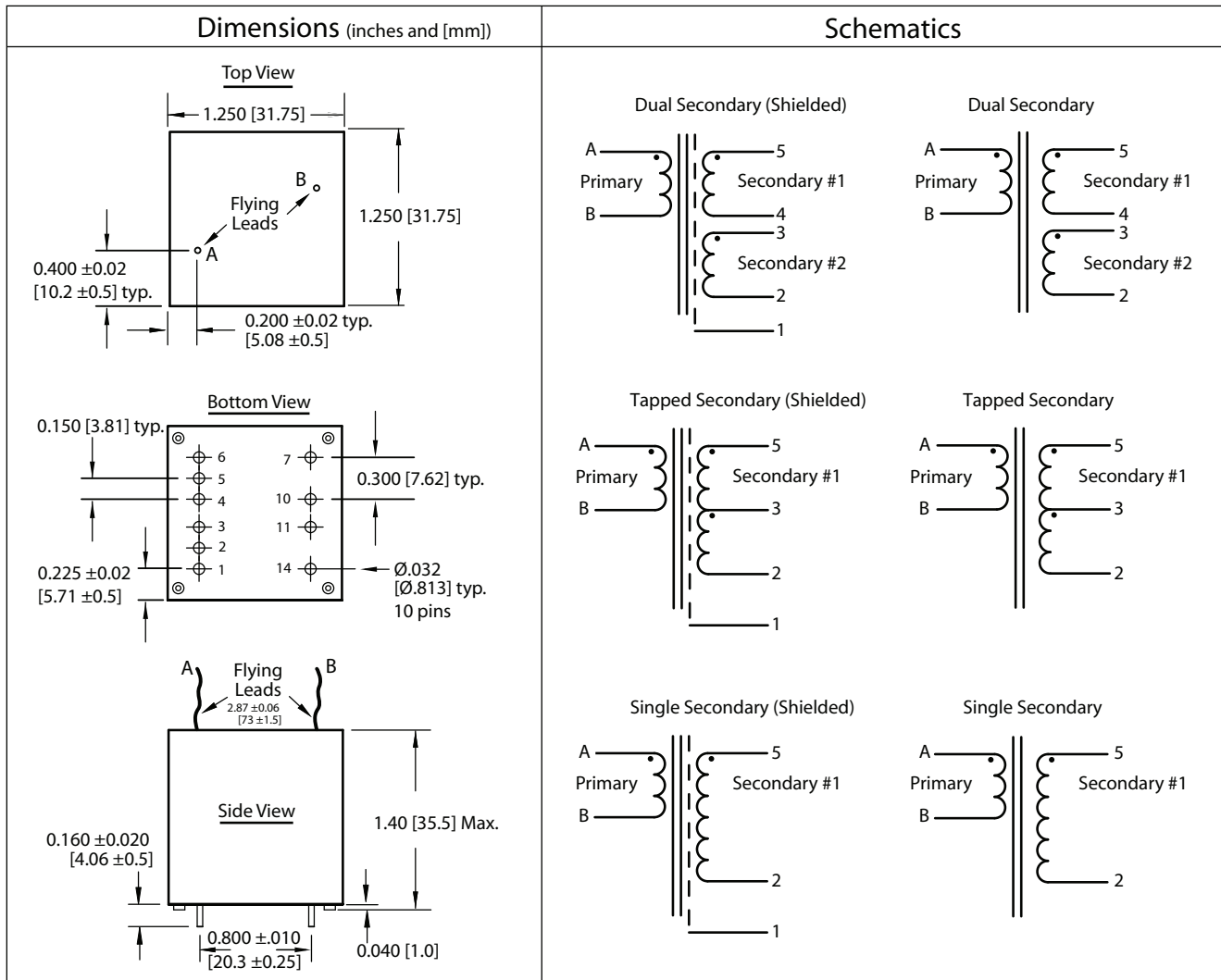
For complete detail, go to: www.BicronMagnetics.com

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High Isolation IGBT Drive Transformer Parasitic Values

| Frequency KHz | Voltage RMS | Leakage Inductance* μH (Typ.) | Capacitance* pF (Typ.) |
|------------------|----------------|-------------------------------------|---------------------------|
| 10 - 50 | 36 | 5—50 | 15—45 |
| | 48 | 5—50 | 15—45 |
| | 100 | 5—50 | 15—45 |
| 50 - 100 | 36 | 5—50 | 15—45 |
| | 48 | 5—50 | 15—45 |
| | 100 | 5—50 | 15—45 |
| 100 - 250 | 36 | 5—50 | 15—45 |
| | 48 | 5—50 | 15—45 |
| | 100 | 5—50 | 15—45 |

*Designed to meet circuit requirements



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