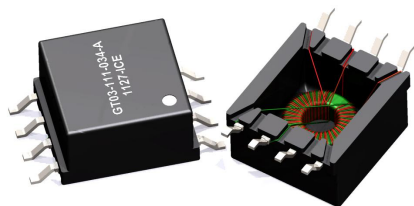


GT03 Series

SMT Gate Drive Transformers



- Height: 6.8 mm (Max)
- Footprint: 16.0 mm (Ref) x 10.7 mm (Max)
- Frequency Range: 100 kHz to 350 kHz
- Full Selection of Turns Ratios
- Suitable for Pick & Place Applications

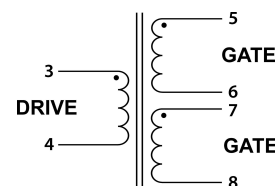
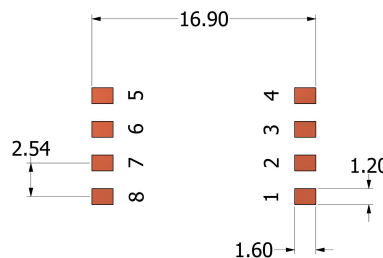
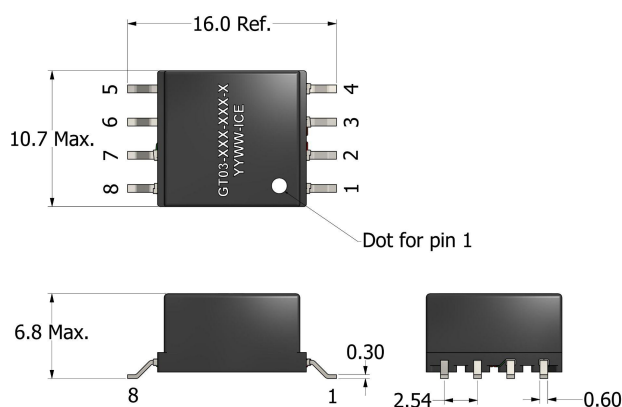
APPLICATIONS

- DC/DC Converters
- AC/DC Converters
- Signal Xfmr Across Isolation Barrier

PACKAGING

- Reel Diameter: 13"
- Reel Width: 24 mm
- Pieces/Reel: 500

Mechanical Drawing Recommended PCB Layout Schematic



All dimensions are in mm

Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +130°C

| Part Number | Turns Ratio (TR) | Drive Inductance ² (μH, Min) | DCR Pri:Sec (mΩ, Max) | Leakage Inductance (nH, Max) | SRF ³ (3-4) (MHz, Typ) | ET Product ⁵ (V-μs, Max) | Hi-Pot Drive:Gate |
|----------------|------------------|---|-----------------------|------------------------------|-----------------------------------|-------------------------------------|----------------------|
| GT03-111-034-A | 1:1:1 | 882 | 550:550 | 300 | 3.3 | 34.6 | 1500 V _{DC} |
| GT03-111-052-A | 1:1:1 | 1985 | 850:850 | 370 | 1.3 | 51.9 | 1500 V _{DC} |
| GT03-111-069-A | 1:1:1 | 2000 | 1300:1300 | 300 | 1.5 | 69 | 1500 V _{DC} |
| GT03-111-110-A | 1:1:1 | 5100 | 1900:1900 | 550 | 0.6 | 110 | 1500 V _{DC} |
| GT03-122-037-A | 1:2.5:2.5 | 162 | 265:590 | 180 | 3.6 | 37.1 | 1500 V _{DC} |
| GT03-122-055-A | 1:2.5:2.5 | 365 | 400:900 | 300 | 1.1 | 55.6 | 1500 V _{DC} |
| GT03-111-034-B | 1:1:1 | 882 | 600:600 | 360 | 2.4 | 34.6 | 3750 V _{AC} |
| GT03-111-069-B | 1:1:1 | 2000 | 1430:1300 | 470 | 1.3 | 69 | 3750 V _{AC} |
| GT03-122-037-B | 1:2.5:2.5 | 162 | 280:590 | 240 | 3.1 | 37.1 | 3750 V _{AC} |

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Drive Inductance:** Tested at 100kHz, 0.1 V_{RMS}
- SRF values are for reference only.
- Flammability Standard:** Meets UL 94V-0.
- ET Product:** The maximum ET is based upon a flux density of 2200 Gauss at 25°C.

Where as,
 $E_p = \text{Primary Voltage (V)}$ $f = \text{Frequency (Hz)}$

- Suitable for bipolar applications only.

$$ET = E_p / 2f$$

Specifications subject to change without prior notice.

TEL.: 800-729-2099

www.icecomponents.com

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