# **GT07 Series**SMT Gate Drive Transformers





#### **FEATURES**

- 9.2 mm Creepage
- 8.0 mm Clearance
- Optimized for frequencies from 50kHz to 1MHz
- Suitable for pick-and-place applications
- Designed to work with TI SN6500 series Transformer Drivers

#### **APPLICATIONS**

- Gate Drive Transformer
- Signal Transformer Across Isolation Barrier
- Small Form Factor Push-Pull Transformers for Low-Noise Isolated Power Supplies

### **PACKAGING**

Reel Diameter: 13"

Reel Width: 24 mm

Pieces Per Reel: 500

#### Schematic **Mechanical Drawing Recommended PCB Layout TOP VIEW** A -1.20Dot for Pin 1 12.2 REF. DRIVE **GATE** 11.30 В 5 6 1.90 10.0 MAX. -**SIDE VIEW** DRIVE GATE 0.12 Max. Pin t=0.40 6.35 Max for coplanarity 3.05 6 6 1 **TOP VIEW** Unit: mm **FRONT VIEW**

## **Electrical Specifications**

Part Number	Turns Ratio Drive:Gate	Drive Ind.¹ (µH, min.)	DCR $^2$ (m $\Omega$ , max.)	Lkg. Ind. <sup>4</sup> (uH, max.)	E-T Prod. <sup>5</sup> (V-μs)	Hi-Pot <sup>6</sup> (V <sub>AC</sub> ) (Drive:Gate)	Schematic
GT07-110-013	1:1	100	370:300	0.30	13	6250	А
GT07-110-027	1:1.1	340	720:530	0.60	27	6250	В
GT07-120-045	1:2.57	166	520:720	0.35	45	3750	В

#### **Notes:**

- 1. Tested at 100kHz, 0.1Vrms (Terminals 1-3).
- 2. Electrical specifications at 25°C.
- 3. Operating range: -40°C to +125°C.
- 4. Drive terminals 1-3 (4, 6 shorted).
- 5. E-T product rating is for (6-4) windings and is based upon flux density of 2800 Gauss at 25°C in a bipolar drive applications.
- 6. Tested at 60Hz, 1mA, 1 second.
- 7. Meets UL 94V-0.



Specifications subject to change without prior notice.