

# GT17005

## Gate Drive Transformers



### FEATURES

- 9.2 mm Creepage
- 8.0 mm Clearance
- Suitable for pick-and-place applications
- Operating frequency of 420kHz
- Designed to work with TI UCC5390SCD and SN6505B
- Eval Module: UCC5390SCDEVM-010

### APPLICATIONS

- Gate Drive Transformer
- Signal Transformer Across Isolation Barrier

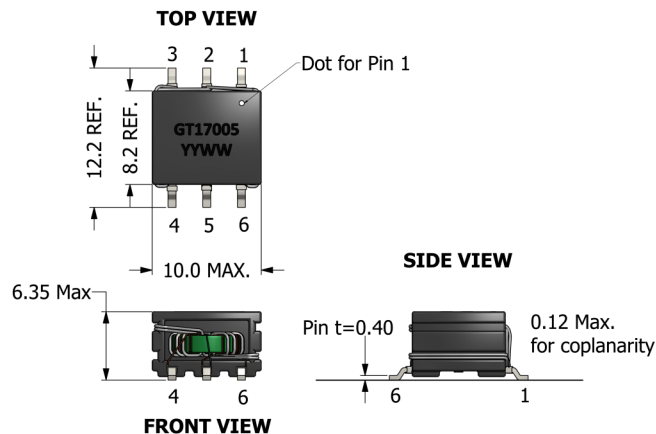
### PACKAGING

Reel Diameter: 13"

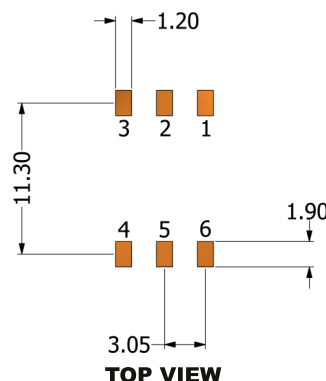
Reel Width: 24 mm

Pieces Per Reel: 500

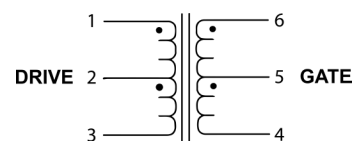
### Mechanical Drawing



### Recommended PCB Layout



### Schematic



Unit: mm

### Electrical Specifications

Part Number	Turns Ratio Drive:Gate	Drive Ind. <sup>1</sup> ( $\mu$ H, min.)	DCR (m $\Omega$ , max.)	Lkg. Ind. <sup>4</sup> (nH, max.)	E-T Prod. <sup>5</sup> (V- $\mu$ s)	Hi-Pot <sup>6</sup> (Drive:Gate)
GT17005	1:3.5	50	600:1200	500	70.6	3750 Vac

### Notes:

1. Tested at 100kHz, 0.1Vrms (Terminals 1-2).
2. Electrical specifications at 25°C.
3. Operating range: -40°C to +125°C.
4. Drive terminals 1-3 (4, 5, 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.