

GT17005

SMT Gate Drive Transformers



- Height: 6.35 mm (Max)
- Footprint: 10.0 mm (Max) x 12.2 mm (Ref)
- Operating Frequency: 420 kHz
- 9.2 mm Creepage / 8.0 mm Clearance
- Works with TI UCC5390SCD and SN6505B
Eval Module: UCC5390SCDEVM-010
- Suitable for Pick & Place Applications

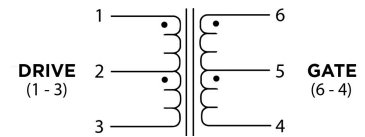
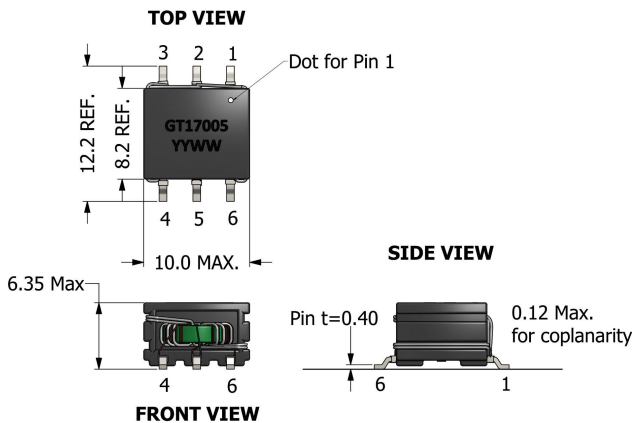
APPLICATIONS

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 +125°C

Part Number	Turns Ratio (TR)	Drive Inductance ² (μH, Min)	DCR Pri:Sec (mΩ, Max)	Leakage Inductance (nH, Max)	SRF ³ (1-3) (MHz, Typ)	ET Product ⁵ (V-μs, Max)	Hi-Pot Drive:Gate
GT17005	1:3.5	50	600:1200	500	1.3	70.6	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 2800 Gauss at 25°C.
- Suitable for bipolar applications only.

$$ET = E_p / 2f$$

Where as,

$$E_p = \text{Primary Voltage (V)} \quad f = \text{Frequency (Hz)}$$



Specifications subject to change without prior notice.