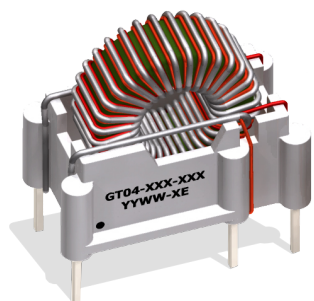


GT04 Series

THT Gate Drive Transformers



- Height: 19.05 mm (Max)
- Footprint: 20.57 mm (Max) x 12.19 mm (Max)
- Frequency Range: 20 kHz to over 300 kHz
- Meets Medical Safety Isolation Requirements
- Full Selection of Turns Ratios
- Available in UL Class F (155°C) or Economical Class B (130°C) Versions

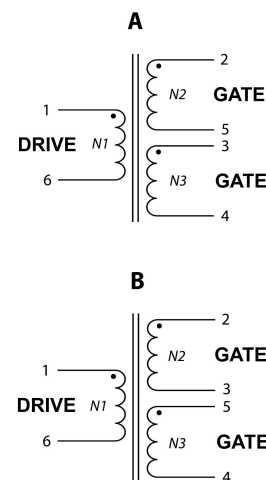
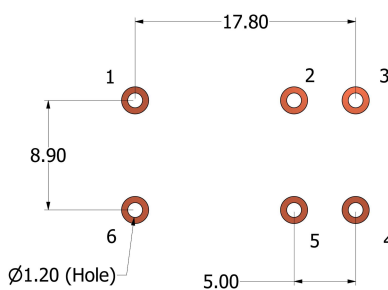
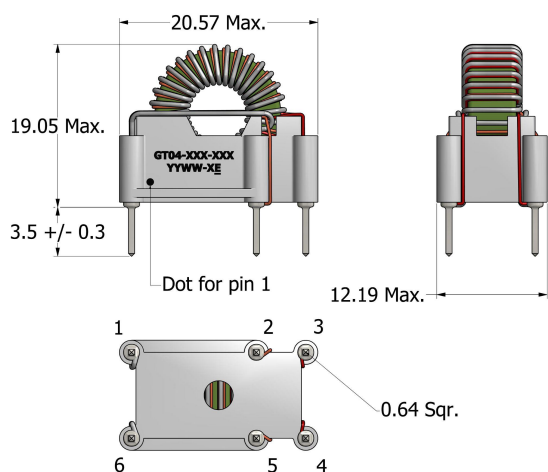
APPLICATIONS

Hi-Powered DC/DC Converters
 Offline AC/DC Converters
 Signal Transformer Across Isolation Barrier

PACKAGING

Pieces/Tray: 120
 Trays/Box: 12
 Pieces/Box: 1440

Mechanical Drawing Recommended PCB Layout Schematic



All dimensions are in mm

STANDARD VERSIONS - Electrical Specifications @ 25°C - Operating Temperature Range¹: -40°C to +155°C

Part Number	Turns Ratio (TR)	Drive Inductance ² (mH, Min)	DCR N1:N2:N3 (mΩ, Max)	Leakage Inductance (nH, Max)	SRF ³ (1-6) (MHz, Typ)	ET Product ⁵ (V-μs, Max)	Hi-Pot Drive:Gate
GT04-111-063-	1:1:1	0.247	40:40:40	200	4.3	63	4500 V _{DC}
GT04-111-126-	1:1:1	0.990	70:70:70	400	2.1	126	4500 V _{DC}
GT04-111-189-	1:1:1	2.220	200:200:200	500	0.7	189	4500 V _{DC}
GT04-111-252-	1:1:1	3.960	500:500:500	700	0.6	252	4500 V _{DC}
GT04-111-315-	1:1:1	6.180	1000:1000:1000	800	0.4	315	4500 V _{DC}
GT04-111-378-	1:1:1	8.910	2700:2700:2700	1200	0.4	378	4500 V _{DC}
GT04-122-063-	1:2.5:2.5	0.039	20:40:40	150	4.5	63	4500 V _{DC}
GT04-122-126-	1:2.5:2.5	0.158	40:70:70	200	1.7	126	4500 V _{DC}
GT04-122-189-	1:2.5:2.5	0.356	100:200:200	250	1.2	189	4500 V _{DC}
GT04-122-252-	1:2.5:2.5	0.634	200:450:450	300	0.6	252	4500 V _{DC}
GT04-122-315-	1:2.5:2.5	0.990	400:900:900	400	0.3	315	4500 V _{DC}
GT04-122-378-	1:2.5:2.5	1.420	1100:2500:2500	500	0.4	378	4500 V _{DC}

Specifications subject to change without prior notice.

GT04 Series

THT Gate Drive Transformers



ECONOMY VERSIONS - Electrical Specifications @ 25°C - Operating Temperature Range ¹ : -40°C to +130°C							
Part Number	Turns Ratio (TR)	Drive Inductance ² (mH, Min)	DCR N1:N2:N3 (mΩ, Max)	Leakage Inductance (nH, Max)	SRF ³ (1-6) (MHz, Typ)	ET Product ⁵ (V-μs, Max)	Hi-Pot Drive:Gate
GT04-111-063-_E	1:1:1	0.247	70:40:40	400	3.4	63	4500 V _{DC}
GT04-111-126-_E	1:1:1	0.990	160:70:70	600	2.3	126	4500 V _{DC}
GT04-111-189-_E	1:1:1	2.220	200:200:200	500	0.7	189	4500 V _{DC}
GT04-111-252-_E	1:1:1	3.960	800:500:500	900	0.6	252	4500 V _{DC}
GT04-111-315-_E	1:1:1	6.180	1000:1000:1000	800	0.4	315	4500 V _{DC}
GT04-111-378-_E	1:1:1	8.910	1200:2700:2700	1500	0.3	378	4500 V _{DC}
GT04-122-063-_E	1:2.5:2.5	0.039	40:40:40	400	3.6	63	4500 V _{DC}
GT04-122-126-_E	1:2.5:2.5	0.158	70:70:70	400	1.6	126	4500 V _{DC}
GT04-122-189-_E	1:2.5:2.5	0.356	100:200:200	250	1.1	189	4500 V _{DC}
GT04-122-252-_E	1:2.5:2.5	0.634	340:450:450	600	1.0	252	4500 V _{DC}
GT04-122-315-_E	1:2.5:2.5	0.990	400:900:900	400	0.6	315	4500 V _{DC}
GT04-122-378-_E	1:2.5:2.5	1.420	500:2500:2500	900	0.7	378	4500 V _{DC}

- Operating Temp. Range:** The combination of ambient temperature and temperature rise.
- Drive Inductance:** Tested at 10kHz, 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.
- Select pin assignment option based on the schematics above. For other options, please contact ICE Components, Inc.
- Suitable for bipolar applications only.

$$ET = E_p / 2f$$

Where as

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

