

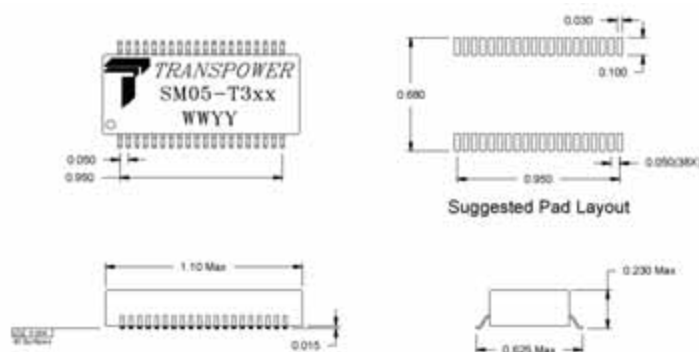
## TELECOMMUNICATIONS

### ISOLATION TRANSFORMERS — SURFACE-MOUNT



- Surface-mount package supports four T3/E3 channels (four each, transmit and receive transformers)
- Designed for industrial temperature applications (-40°C to +85°C)
- Models designed to support leading transceiver ICs
- Crosstalk less than -35dB from 100kHz to 100MHz
- Return loss meets requirements of CCITT, G.703
- 1500 Vrms isolation

#### SM05-T3xx:



All dimensions are  $\pm 0.005$  unless otherwise noted.  
All dimensions are in inches.

**SM05-T3xx Part Number Table**

| Part Number      | Turns Ratio (Pri:Sec) $\pm 2\%$ |        | Primary Inductance @25°C (uH Min) |     | Primary Inductance @-40°C (uH Min) |    | Leakage Inductance (uH Max) |      | Capacitance (pF Max) |    | Isolation Voltage (Vrms Min) |
|------------------|---------------------------------|--------|-----------------------------------|-----|------------------------------------|----|-----------------------------|------|----------------------|----|------------------------------|
|                  | TX                              | RX     | TX                                | RX  | TX                                 | RX | TX                          | RX   | TX                   | RX |                              |
| <b>SM05-T301</b> | 1:1                             | 1:1    | 100                               | 100 | 55                                 | 55 | 0.11                        | 0.11 | 10                   | 10 | 1500                         |
| <b>SM05-T302</b> | 1:2CT                           | 1:1    | 35                                | 100 | 19                                 | 55 | 0.11                        | 0.11 | 10                   | 10 | 1500                         |
| <b>SM05-T303</b> | 1CT:1CT                         | 1:1    | 100                               | 100 | 55                                 | 55 | 0.17                        | 0.11 | 10                   | 10 | 1500                         |
| <b>SM05-T304</b> | 1:2CT                           | 1:1    | 100                               | 100 | 55                                 | 55 | 0.11                        | 0.11 | 10                   | 10 | 1500                         |
| <b>SM05-T305</b> | 1:1.41                          | 1:1.41 | 56                                | 56  | 30                                 | 30 | 0.11                        | 0.11 | 10                   | 10 | 1500                         |
| <b>SM05-T306</b> | 1:1                             | 1:1CT  | 100                               | 100 | 55                                 | 55 | 0.11                        | 0.17 | 10                   | 10 | 1500                         |

**Notes:**

1) All inductance and capacitance measurements are made with 0.1Vrms at 100kHz.