



DTM Series • T3/DS3/E3/STS-1 Tri-Port Transformer Modules

These modules contain both transmit and receive transformers designed for use in T3/DS3 applications using bit rates of 44.736Mbps, E3 interfaces at 34.368Mbps and STS-1 applications at 51.84 Mbps. The transformers are typical for 75 ohm bandwidth applications requiring a very fast rise times.

Features

- low cost SMD for pick and place compatibility while providing consistent and reliable coplanarity
- low leakage inductance
- manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- fully RoHS compliant and meets lead free reflow level J-STD-020C

Electrical Specifications

Ratings @ 25°C ambient

Minimum isolation voltage: 1500 Vrms

Extended Operating Temperature Range: -40° to +85°C

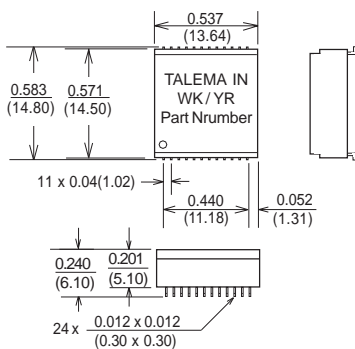


DTM Series • Tri-Port SMD Wideband Interface Transformer Modules

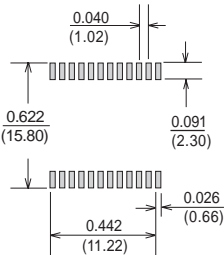
Extended Operating Temperature Range -40°C to +85°C

Part Number	Turns Ratio Pri/Sec ±2%	OCL Primary @ 25°C (µH Min)	OCL Primary @ -40°C (µH Min)	L _L (µH Max)	C _{WW} (pF Max)	Isolation Voltage (Vrms Min)	Primary Pins
DTM-100	1:1	100	40	0.11	12	1500	1-2, 3-4, 5-6, 7-8, 9-10, 11-12

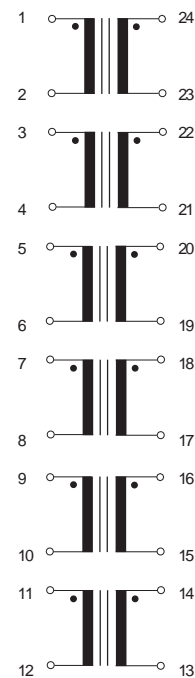
DTM Dimensions



Suggested Pad Layout



Schematic



Surface coplanarity will be 0.004 (0.01) maximum