



DJM Series • T3/DS3/E3/STS-1 Dual Interface Transformers

These miniature 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

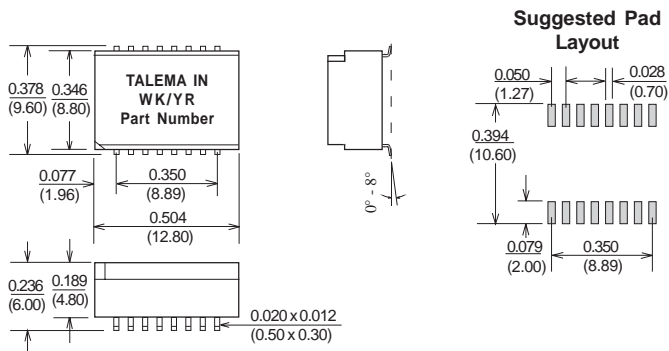


DJM Series • Dual SMD Wideband Interface Transformers

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

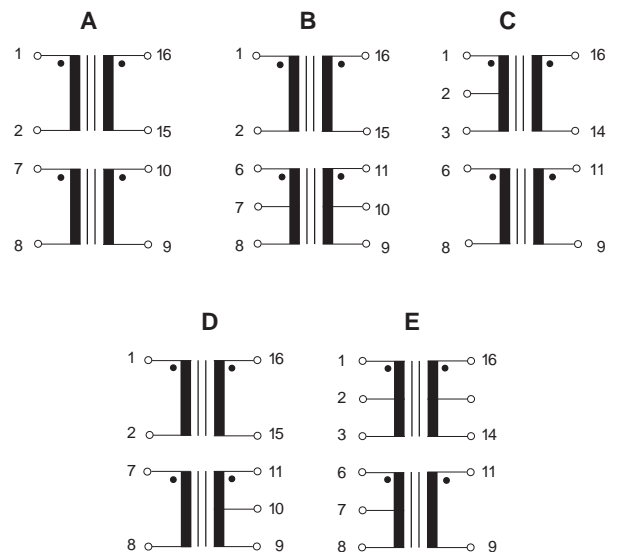
| Part Number | Turns Ratio Pri/Sec ±2% | | OCL Primary (µH Min) | | L _L (µH Max) | | C _{WW} (pF Max) | | Isolation Voltage (Vrms Min) | Primary Pins | | Schematic |
|-------------|----------------------------|-------|-------------------------|-----|----------------------------|------|-----------------------------|----|---------------------------------|--------------|-------|-----------|
| | TX | RX | TX | RX | TX | RX | TX | RX | | TX | RX | |
| | | | | | | | | | | | | |
| DJM-100A | 1:1 | 1:1 | 40 | 40 | 0.10 | 0.10 | 10 | 10 | 1500 | 1-2 | 7-8 | A |
| DJM-100B | 1ct:1ct | 1:1 | 100 | 100 | 0.11 | 0.11 | 10 | 10 | 1500 | 6-8 | 16-15 | B |
| DJM-100C | 1:2ct | 1:1 | 40 | 100 | 0.11 | 0.11 | 12 | 10 | 1500 | 16-14 | 6-8 | C |
| DJM-100D | 1:2ct | 1:1 | 100 | 100 | 0.12 | 0.11 | 12 | 10 | 1500 | 7-8 | 16-15 | D |
| DJM-100E | 1:2ct | 1:2ct | 40 | 40 | 0.11 | 0.11 | 12 | 12 | 1500 | 16-14 | 11-9 | E |

DJM Dimensions



Surface coplanarity will be 0.004 (0.01) maximum

Schematics



Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise

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