



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

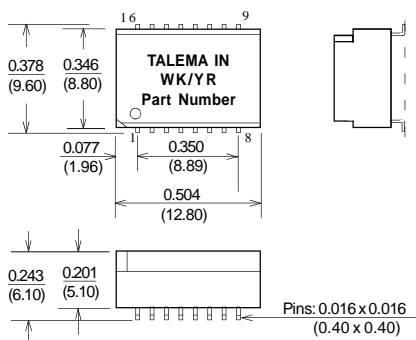


DJM Series • Dual SMD Wideband Interface Transformers

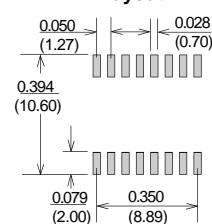
Extended Operating Temperature Range -40°C to +85°C

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

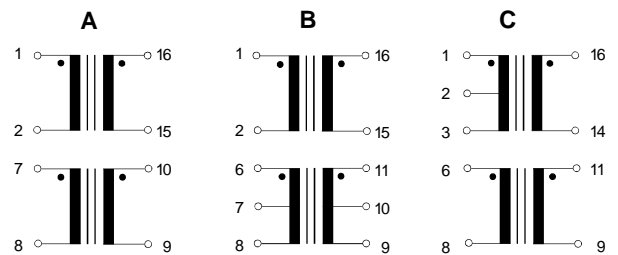
DJM Dimensions



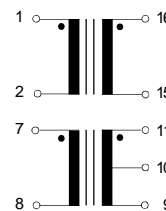
Suggested Pad Layout



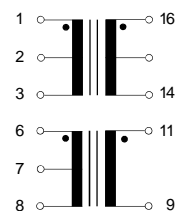
Schematics



D



E



Surface coplanarity will be 0.004 (0.01) maximum

Dimensions: Inches (Millimeters)

Tolerance: ±0.010 (0.25) unless specified otherwise

Germany: Int.+49 89 - 841 00-0 • Ireland: Int.+35 374 - 954 8666 • Czech Rep: Int.+420 377-338 351 • India: Int.+91 427 - 244 1325
<http://www.talema-nuvotem.com>