



SMD Dual Port 10/100Base-T Isolation Transformer Modules

Preliminary Data Sheet

Features

- Low profile (5.8mm) and light weight (3.5 g) the 10/100Base-T Dual transformer modules facilitate pick and place compatibility and speed of placement
- Dual port modules meet requirements of IEEE 802.3u and ANSI X3.263
- Consistent and reliable coplanarity
- Manufactured in ISO-9001 approved Talema facility

Electrical Specifications

Ratings@ 25°C ambient
 Inductance: 350µH minimum @ 100kHz, 100mV, 8mA
 Leakage Inductance: 0.4µH @ 1MHz
 $C_{w/w}$: 20pF Typical
 Minimum Isolation Voltage: 1500 Vrms
 Operating Temperature: 0° to +70°C
 Storage Temperature: -25°C to +105°C



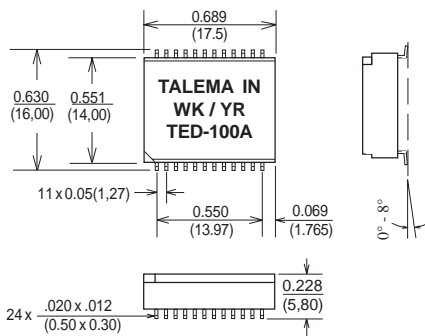
Standard packing: Tape and reel

Quality and consistency is guaranteed through 100% testing of the specified parameters for primary inductance, leakage inductance, turns ratio, DC resistance and interwinding capacitance. This ensures that the return loss and pulse wave shape requirements can be fully maintained. Additionally, all parts are tested for 1500V minimum isolation.

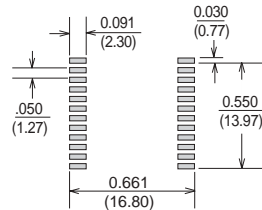
TED Series - SMD Dual Port 10/100Base-T Isolation Transformer Modules

Part Number	Turns Ratio ±2%		Insertion Loss (dB Typ)	Return Loss (dB Min)				Crosstalk (db Min)				Common to Common Rejection Ratio 0.1-60MHz (dB Typ)		Differential to Common Mode Rejection (dB Min)		Schematic
	Tx	Rx		1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	Transmit	Receive	1-60 MHz	
TED-100A	1ct:1ct	1ct:1ct	-1.2	-18	-16	-14	-12	-50	-42	-40	-35	-40	-30	-39	-33	A
TED-104A	2ct:1ct	1ct:1ct	-1.2	-18	-16	-14	-12	-50	-42	-40	-35	-40	-30	-39	-33	A
TED-100B	1ct:1ct	1ct:1ct	-1.1	-18	-16	-14	-12	-35	-35	-35	-35	-35	-35	-35	-35	B

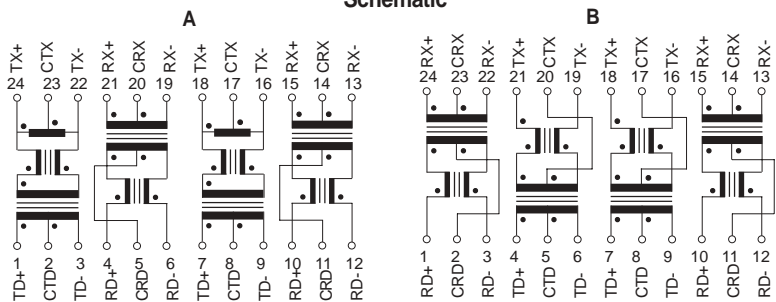
Dimensions



Suggested Pad Layout



Schematic



Sales & Marketing, Design and Manufacturing Facilities

<http://www.talema-nuvotem.com>

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