



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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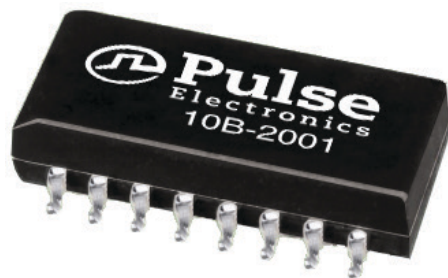
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MILITARY GRADE 10BASE-T INTERFACE MODULE



- Fully integrated 10BASE-T module for adapter, hub, and motherboard applications.
- Designed to meet IEEE802.3i-1993 10BASE-T specifications.
- Low profile surface mount package
- 235°C peak infrared reflow temperature rating
- Storage Temperature: -55°C to +125°C.
- Parts can be screened to MIL-T-21038 and other military specific requirements

Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

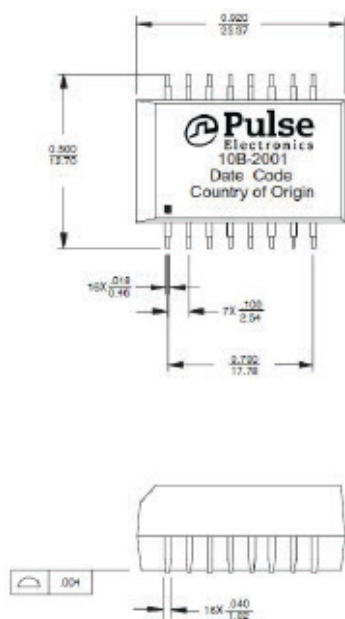
Part Number	Insertion Loss 1-10MHz (dB max) ¹	Attenuation XMIT (dB min) ¹			Return Loss 5 to 10 MHz (dB min)		Crosstalk (dB min)	Common Mode Rejection (dB min)					Pri-Sec Isolation (Vrms min)
		30 MHz	50 MHz	50 MHz	100 ohms	98 ±13 ohms		5-10 MHz	5-10 MHz	50 MHz	100 MHz	200 MHz	
10B-2001	-10	-30	-35	-35	-18	-15	-35	-60	-55	-50	-45	-45	1500

NOTES:

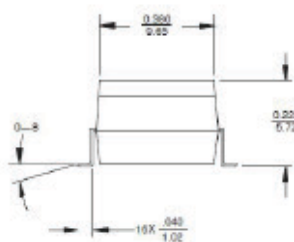
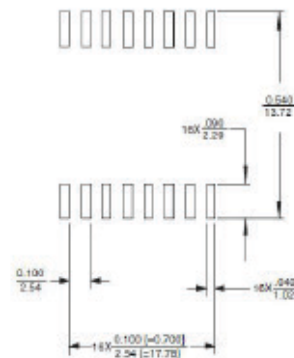
1. Receive and transmit sides meet IEEE 8023i-1993 specification, transmit side is enhanced for FCC/VDE class B system emissions requirement.
2. Specifications reflect filter sections, additional attenuation is due to pre-distortion resistors.
3. A RoHS compliant version part is available. (10B-2001NL)

Mechanical

10B-2001



SUGGESTED SMD PAD LAYOUT



Weight 2.5 grams

Dimensions: Inches
mm

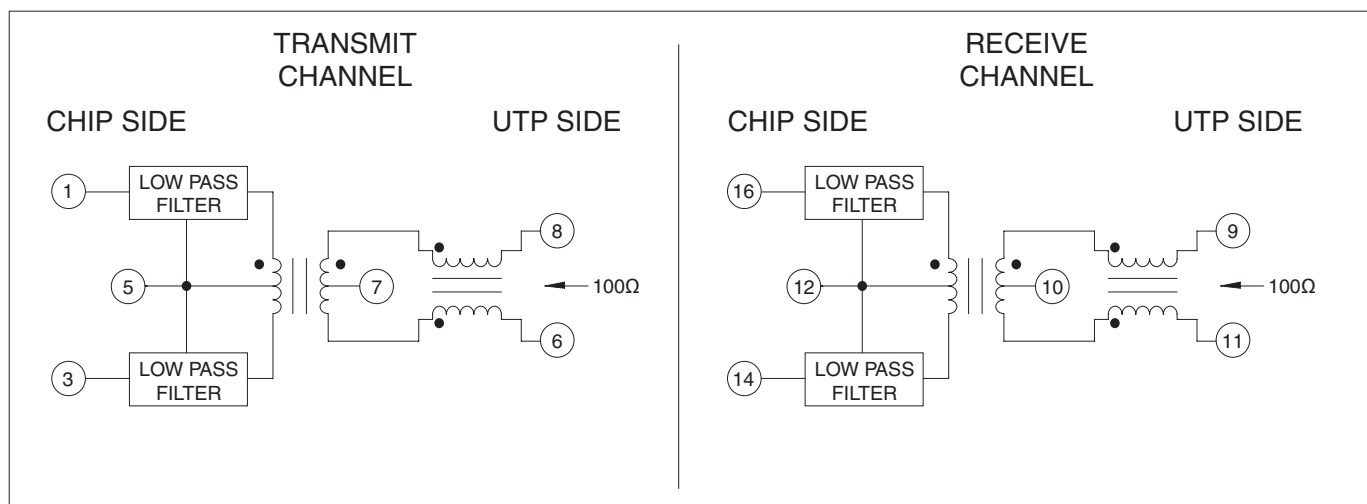
Unless otherwise specified,
all tolerances are ± 0.010
0.254

Application Notes

The module contains low pass filters, isolation transformers, and common mode chokes. These components provide impedance matching, equipment isolation, and EMI compression to comply with IEEE requirements. User compliance with FCC/CSPR class B requirements can be achieved by applying rigorous design guidelines to suppress noise mechanisms. Attention to high frequency signal paths, proper PCB grounding techniques, and component placement is critical. Pins 5 and 12, when grounded, provide noise return paths.

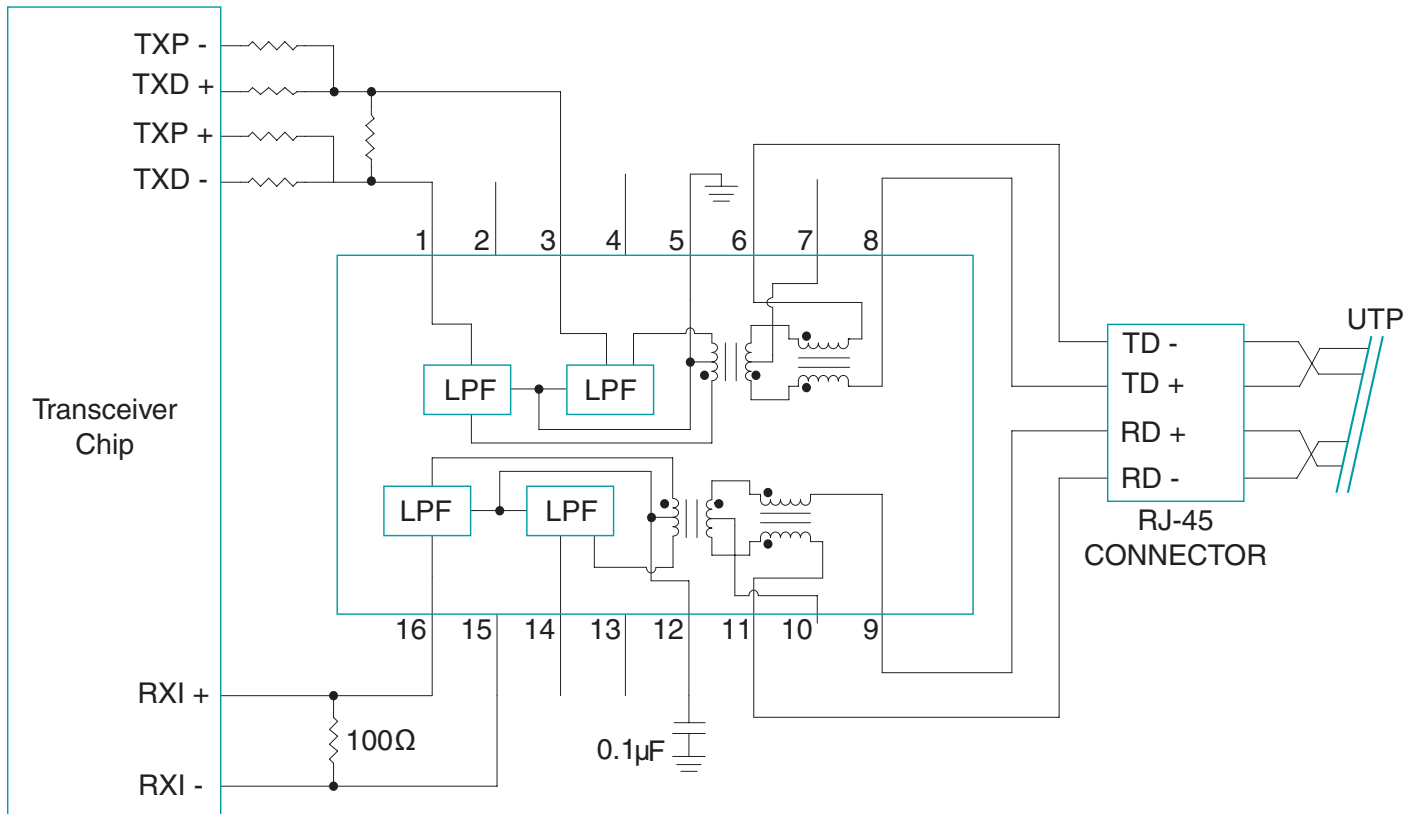
At least one of these (typically pin 12) must be coupled with bypass capacitor. Recommended module orientation with respect to RJ45 connector is illustrated in the application circuit. Output pins 6 through 11 should be routed with short, matched traces to the connector for optimum EMI performance. The robust mechanical package withstands IR reflow temperatures up to 235°C. Compliant leads provide excellent solder-joint reliability with K.002 coplanarity. Modules are shipped in tubes.

Schematic



MILITARY-GRADE 10BASE-T INTERFACE MODULE

Typical Application Circuit



Note: Resistors **included in module**

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