

10/100BASE-TX Single-Port Transformer Modules

Military / Aerospace Grade



- Compliant with IEEE 802.3u & ANSI X3.263 standards
- 350μH OCL with 8mA bias
- Operating and storage temperature:
 - 100B-1001F & 100B-1003: -40°C to +85°C
 - 100B-1001FX & 100B-1003X: -55°C to +125°C
- IC grade transfer-molded package withstands 235°C peak temperature profile.
- RoHS version withstands 245°C
- AS9100C Certified (Based on and including ISO 9001:2008)
- Maximum Isolation Voltage: 2500 VDC / 1800VAC

Electrical Specifications @ 25°C

Part Number ¹	Insertion Loss (dB MIN)	Return Loss (dB MAX)				Crosstalk (dB MAX)				DM to CM Rejection Ratio (dB MAX)		
	0.1-100 MHz	2-30 MHz	50 MHz	60 MHz	80 MHz	16 MHz	30 MHz	60 MHz	80 MHz	0.1-30 MHz	30-60 MHz	60-100 MHz
100B-1001	-1.00	-18	-14	-12	-12	-48	-44	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -30 RX: -30
100B-1001X	-1.10	-18	-14	-12	-12	-48	-44	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -38 RX: -33
100B-1001F	-1.00	-18	-14	-12	-12	-48	-44	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -30 RX: -30
100B-1001FX	-1.10	-18	-14	-12	-10	-48	-44	-40	-38	TX: -45 RX: -45	TX: -40 RX: -40	TX: -38 RX: -33
100B-1003	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003X	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -45 RX: -35	TX: -40 RX: -35	TX: -35 RX: -35
100B-1003F	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -50 RX: -50	TX: -40 RX: -40	TX: -35 RX: -35
100B-1003FX	-1.00	-20	-14	-12	-12	-48	-45	-40	-38	TX: -45 RX: -35	TX: -40 RX: -35	TX: -35 RX: -35

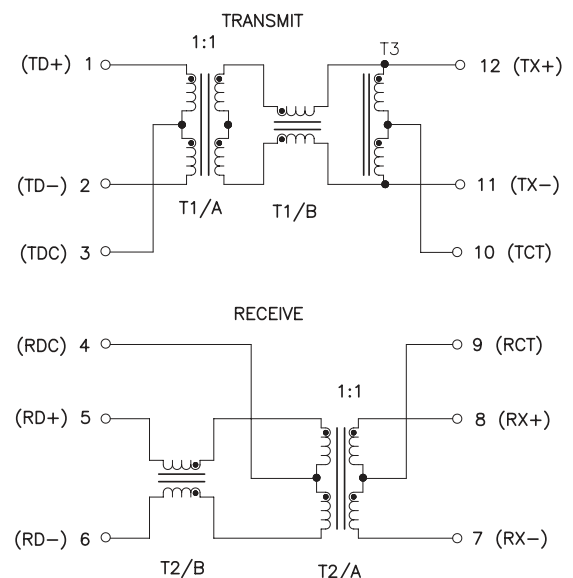
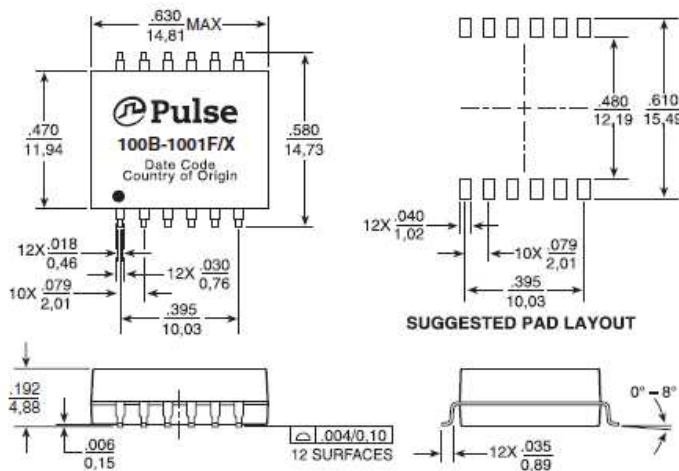
Notes:

- Standard Part have a Sn63/Pb37 Lead Finish (MSL:3)
- Add suffix "NL" for RoHS compliant version; i.e. 100B-1001F becomes 100B-1001FNL. NL Parts have 100% Sn Lead Finish (MSL: 4)
- For Tape&Reel Packaging, add "T" suffix at the end of the part number; i.e. 100B-1003FXNLT
- Maximum Hi-Pot 1800VAC/2500VDC for 6 Sec.

Mechanical

Schematic

100B-1001F/X



10/100BASE-TX Single-Port Transformer Modules

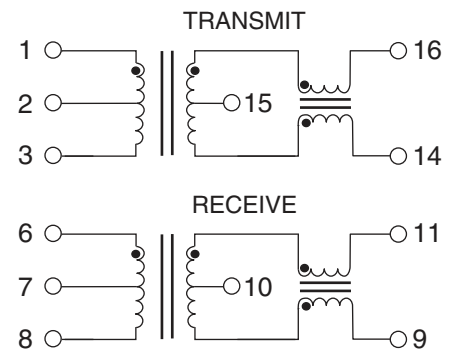
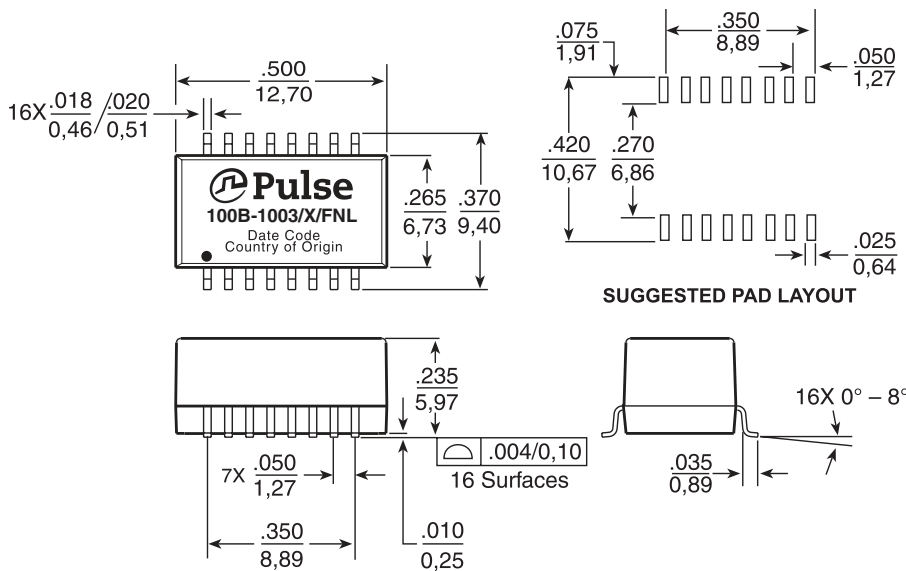
Military / Aerospace Grade



Mechanical

Schematic

100B-1003/X/FNL



Weight 1.16 grams
 Tape and Reel 600/reel

Dimensions: Inches
 mm
 Unless otherwise specified, all tolerances are $\pm .010$
 0,25

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