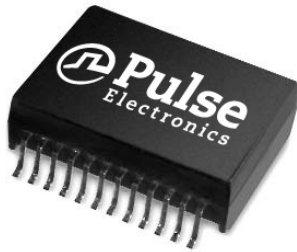


10/100BASE-TX DUAL-PORT TRANSFORMER MODULES

Ruggedized



- Compliant with IEEE 802.3u and ANSI X3.263 standards
- Epoxy encapsulated package withstands 235°C peak temperature
- 350µH OCL with 8mA bias at extended temperatures
- Terminal Finish: matte tin allow solder over nickel layer
- Operating and storage temperature:
 - 100B-2002F: -40°C to +85°C
 - 100B-2002FX: -55°C to +125°C
- Lead Finish: Sn63 Pb37 finish for non-RoHS products
- Sn100 Finish: for RoHS products using NL suffix
- MSL: 3

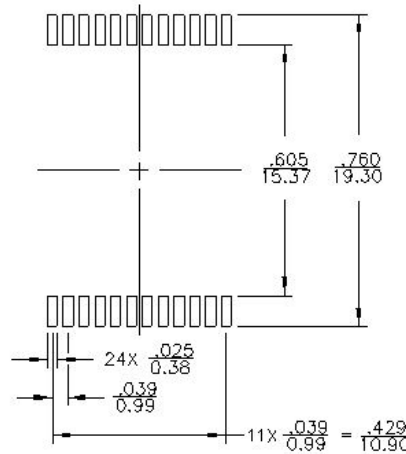
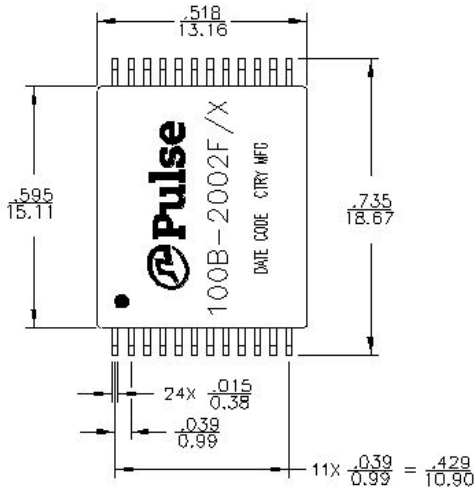
Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)	Return Loss (dB MAX)				Crosstalk (dB MIN)				DM to CM Rejection Ratio (dB MAX)			Dielectric Withstand Voltage @5s MIN (VRMS)
	0.1-100MHz	2-30MHz	40MHz	50MHz	60-80MHz	1MHz	30MHz	60MHz	100MHz	30 MHz	60 MHz	100 MHz	PRI:SEC
100B-2002F	-1.20	-18	-16	-15	-12	-50	-43	37	-33	-43	-37	-33	1500
100B-2002FX	-1.20	-18	-16	-15	-12	-50	-43	37	-33	-43	-37	-33	1500

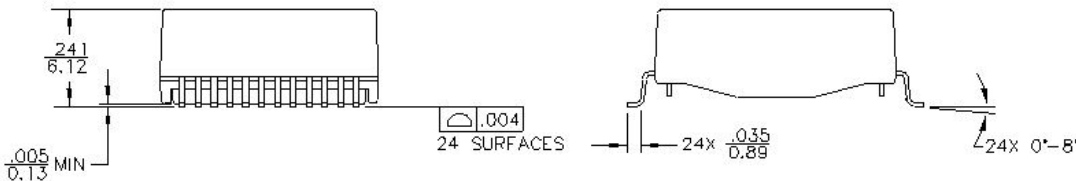
Notes: 1. Optional Tape & Reel packaging can be ordered by adding a "T" suffix to the part number (i.e. 100B-2002F becomes 100B-2002FT). Pulse complies to industry standard tape and reel specification EIA481.
 2. Suffix "NL" for RoHS (Sn100 Lead Finish); i.e. 100B-2002FNL
 3. IC Grade transfer-molded package withstands 235°C peak temperature profile; RoHS version withstands 245°C

Mechanical

100B-2002F/X



SUGGESTED LAND PATTERN



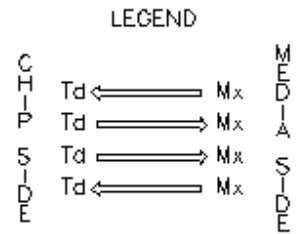
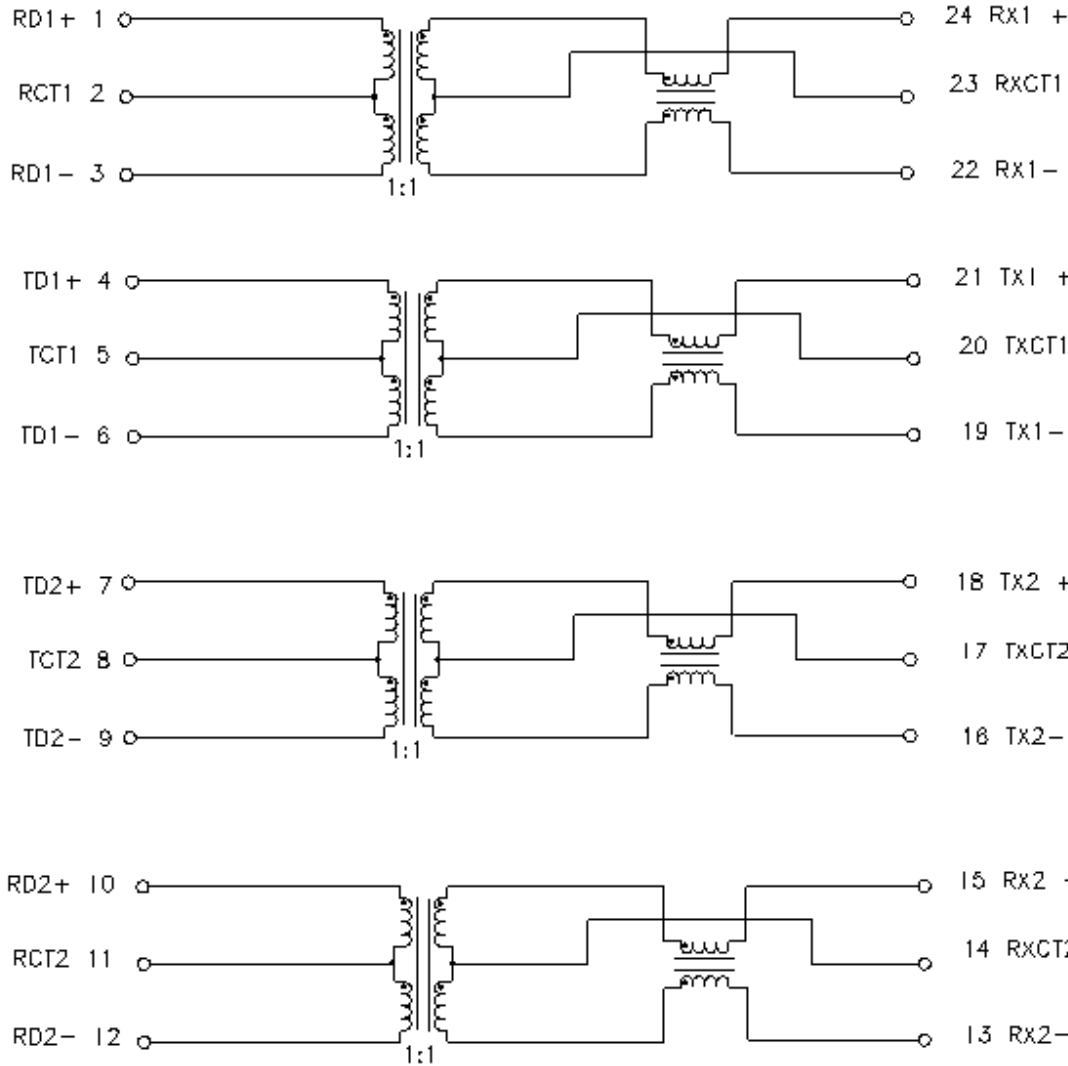
Weight.....3.0grams
 Tape and Reel.....300/reel
 Tube.....25/tube
 Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0.25}$

10/100BASE-TX DUAL-PORT TRANSFORMER MODULES

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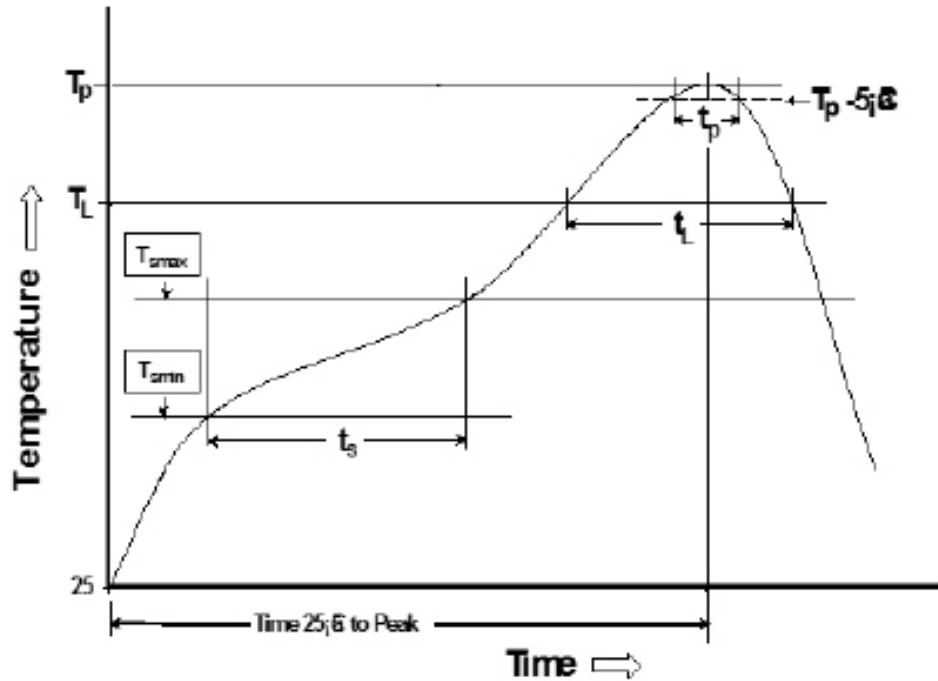
Schematic

100B-2002F/X



ALL CHANNELS ARE IN-PHASE BETWEEN INPUT AND OUTPUT

Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



T_{SMIN} (°C)	T_{SMAX} (°C)	T_L (°C)	T_P (°C MAX)	t_s (s)	t_L (s)	t_p (s MAX)	Ramp-up rate (T_L to T_P)	Ramp-down rate (T_P to T_L)	Time 25°C to peak temperature (s MAX)
100	150	183	235	60-120	60-150	20	3°C/s MAX	6°C/s MAX	360

Notes:

1. All temperatures measured on the package leads.
2. Maximum times of reflow cycle: 2.

For More Information

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Fax: 215 781 6403

For Global Sales Representatives and Locations Visit:

<http://www.pulseruggedized.com>

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