

1000BASE-T DUAL PORT TRANSFORMER MODULE

Ruggedized



- Compliant with IEEE 802.3 standard
- 350µH OCL with 8mA bias at extended temperatures
- Storage Temperature: -55°C to +125°C
- Operating Temperature: 100B-5020: -40°C to +85°C
100B-5020X: -55°C to +125°C
- Lead finish: Hot Dip Sn63/Pb37 Solder
- Moisture Sensitivity Level: 4

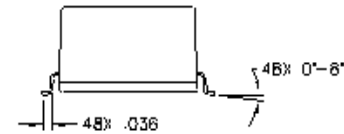
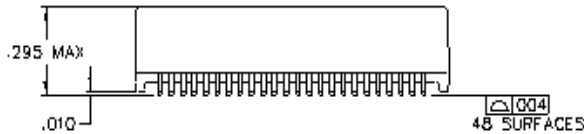
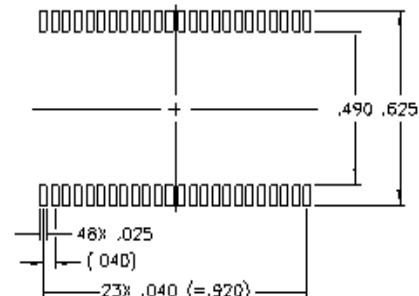
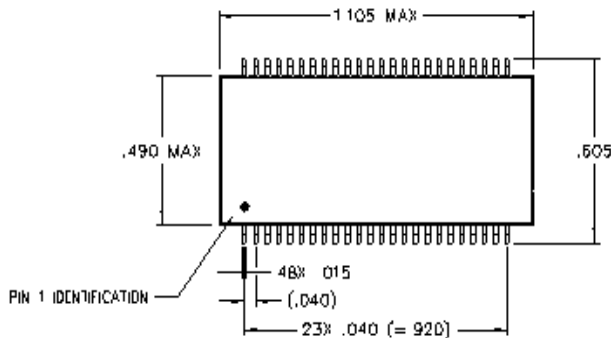
Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB Min)	Return Loss (dB Max)					Crosstalk (dB Max)			Differential To Common Mode Rejection (dB Max)			Dielectric Withstanding Voltage @5s MIN (Vrms)	
		1 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
1000B-5020	-1.2	-18	-18	-12	-12	-10	-42	-35	-32	-43	-37	-33	Primary to Secondary	1500
1000B-5020X	-1.2	-18	-18	-12	-12	-10	-42	-35	-32	-43	-37	-33		1500

Notes: 1. Add suffix "T" to part number for Tape & Reel package (ie: 1000B-5020T).
2. Add suffix "NL" for RoHS compliant part; i.e. 1000B-5020 becomes 1000B-5020NL.

Mechanical

1000B-5020(X)

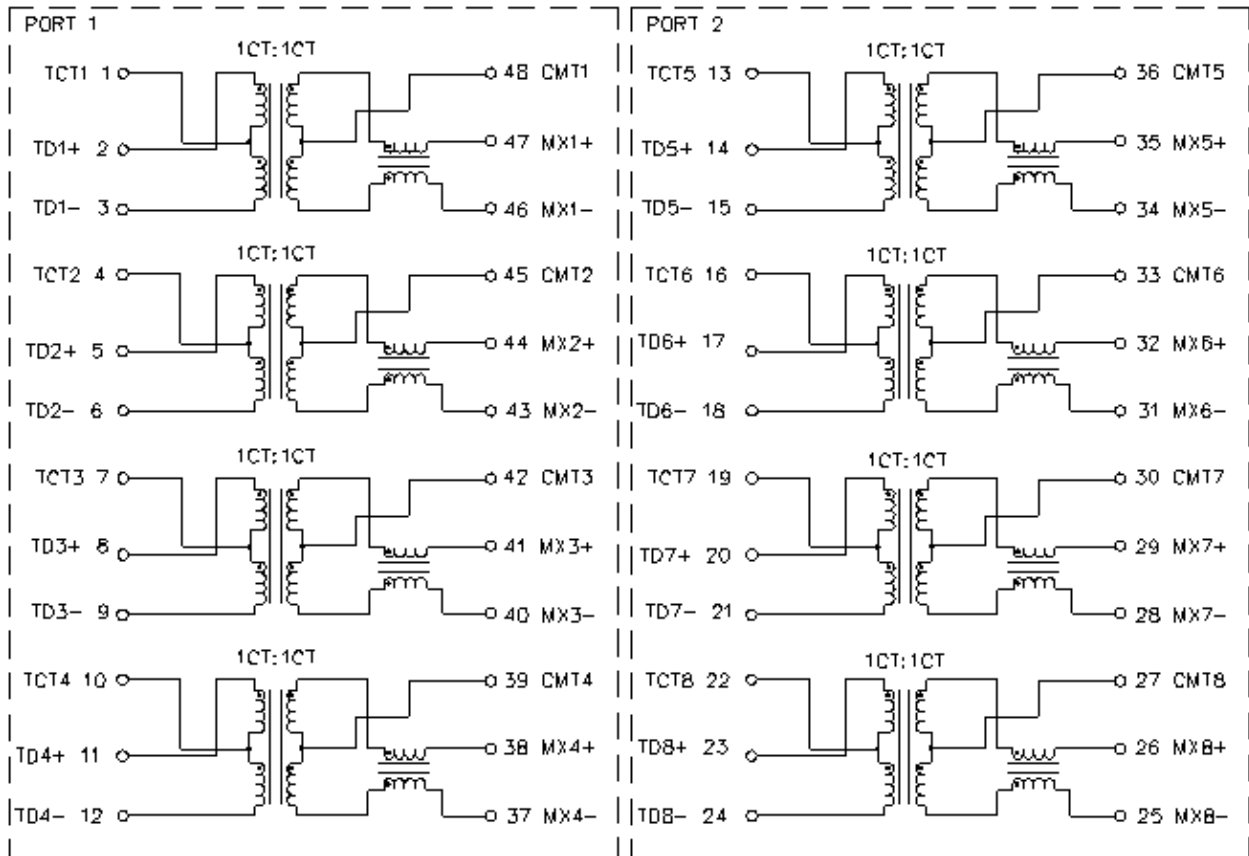


Dimensions: Inches Unless Otherwise Specified, All Tolerances are ± .010

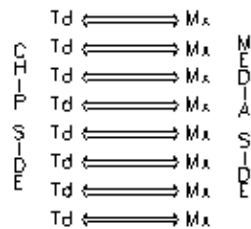
Weight.....3.9grams Max
Tape and Reel.....250pcs/Reel
Tube.....15pcs/Tube

Electrical Schematics

1000B-5020(X)

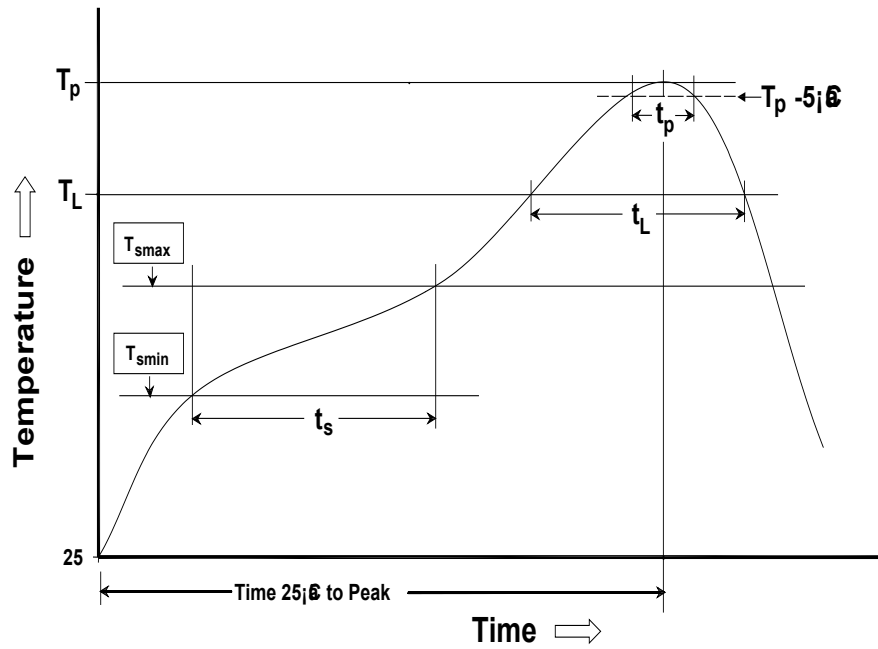


LEGEND



ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

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	220	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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