

# 1000BASE-T TRANSFORMER MODULE

Ruggedized



- Compliant with IEEE 802.3ab standard
- 350uH OCL with 8mA DC
- Operating Temperature: -40°C to + 85°C
- Storage temperature: -55°C to + 125°C
- Epoxy encapsulated package withstands 235°C peak
- Moisture Sensitivity Level: 3
- Lead Finish: Sn63/Pb37

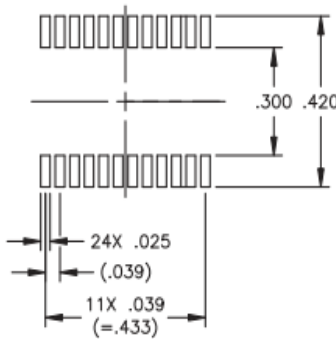
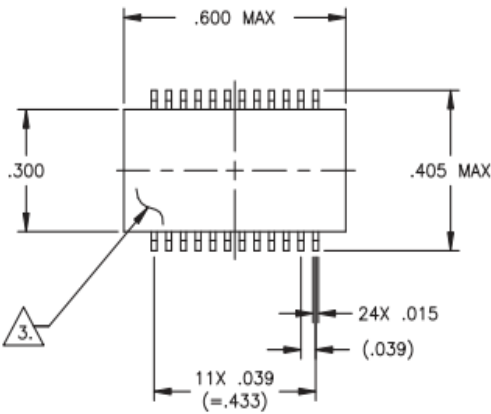
## Electrical Specifications @ 25°C

Part Number <sup>2</sup>	Insertion Loss (dB Min)	Return Loss (dB Max)				Crosstalk (dB Max)			CM to CM Rejection Ratio (dB Max)			DM to CM Rejection Ratio (dB Max)			HiPot (Vrms MIN)
		0.1-100 Mhz	30 MHz	60 MHz	80 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	
1000B-5016	-1.20	-18	-12	-12	-10	-43	-37	-31	-30	-23	-17	-40	-35	-30	1500

Note: 1. Add suffix NL for RoHS compliant part; i.e. 1000B-5016, becomes 1000B-5016NL.  
 2. For Tape and Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5016T

## Mechanical

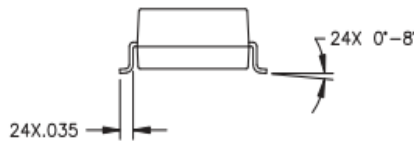
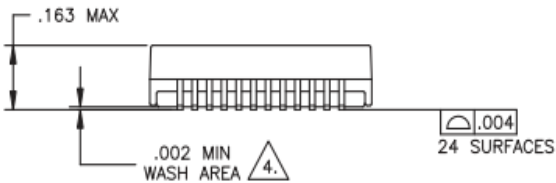
### 1000B-5016



Weight ..... 0.75 grams  
 Tape and Reel ..... .700/reel  
 Tube ..... 30/tube

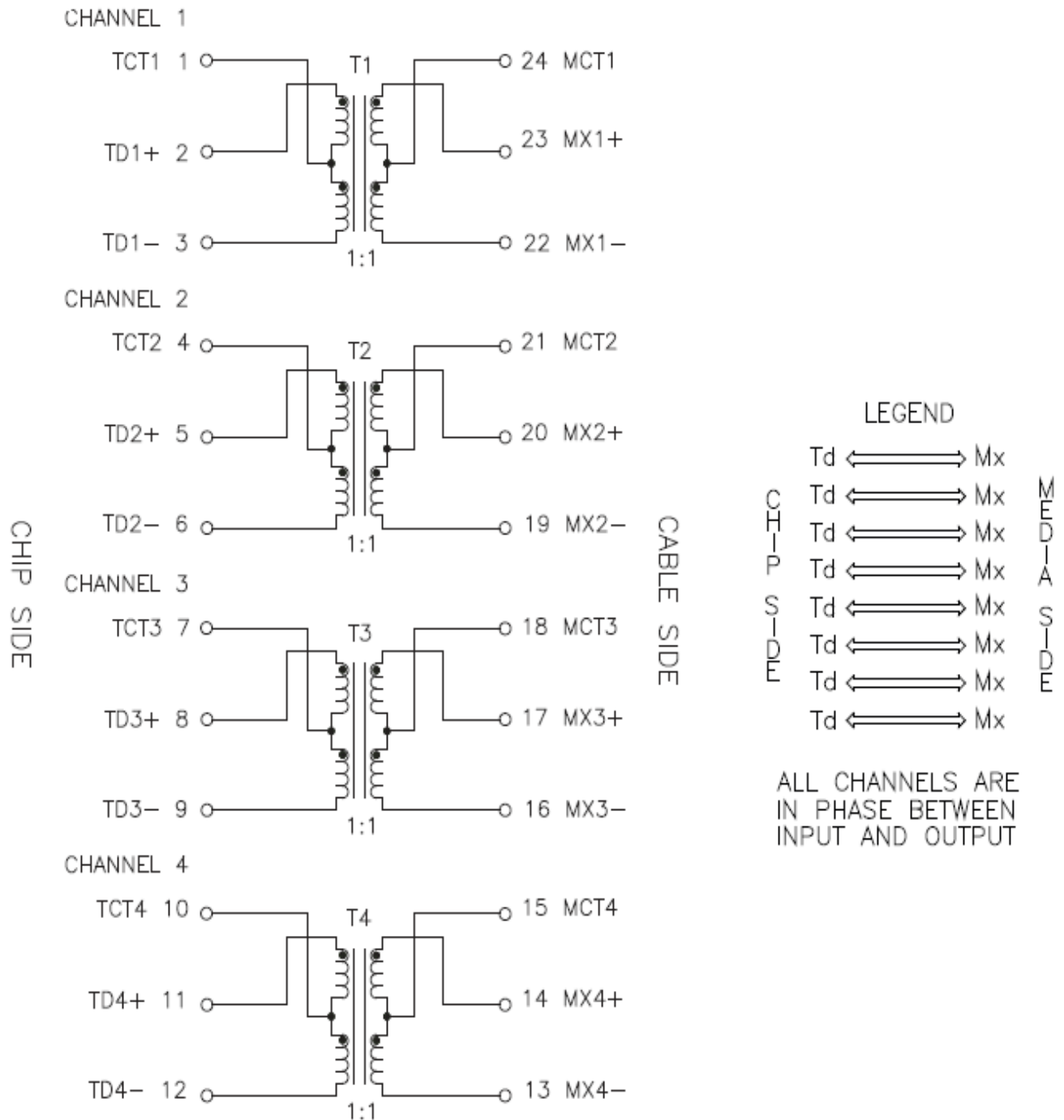
Dimensions: Inches  
 mm  
 Unless otherwise specified,  
 all tolerances are ± .010  
 0,25

SUGGESTED LAND PATTERN

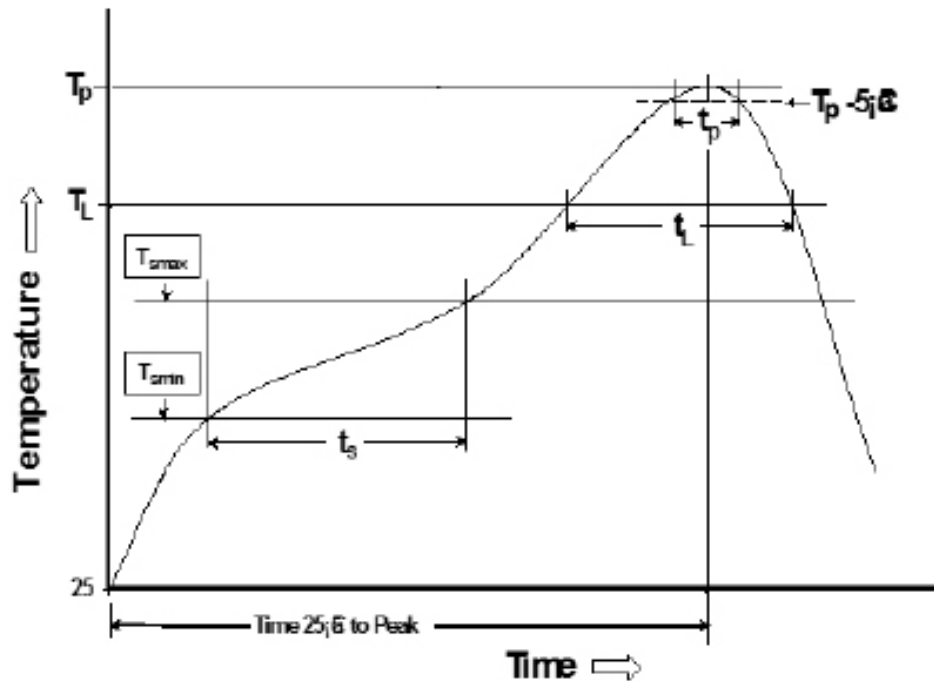


## Electrical Schematic

1000B-5016



## 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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