








1000BASE-T TRANSFORMER MODULE

Military / Aerospace Grade



-  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
-  MSL: 3
-  Lead Finish: Sn63/Pb37

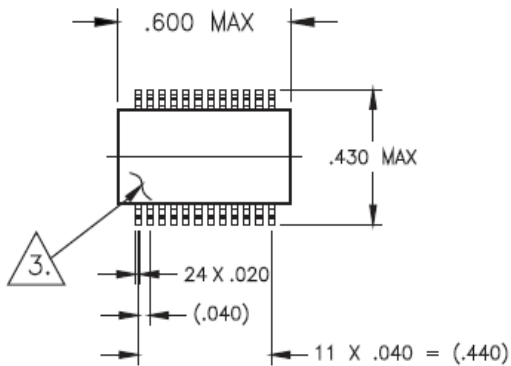
Electrical Specifications @ 25°C

Part Number ²	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

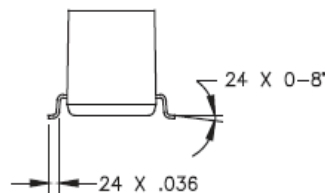
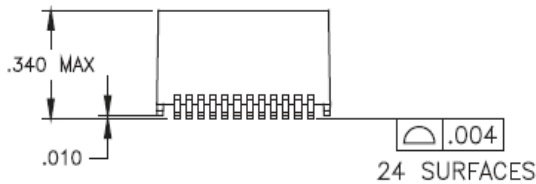
Mechanical

1000B-5016



Weight 0.75 grams
 Tape and Reel250/reel
 Tube 15/tube

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

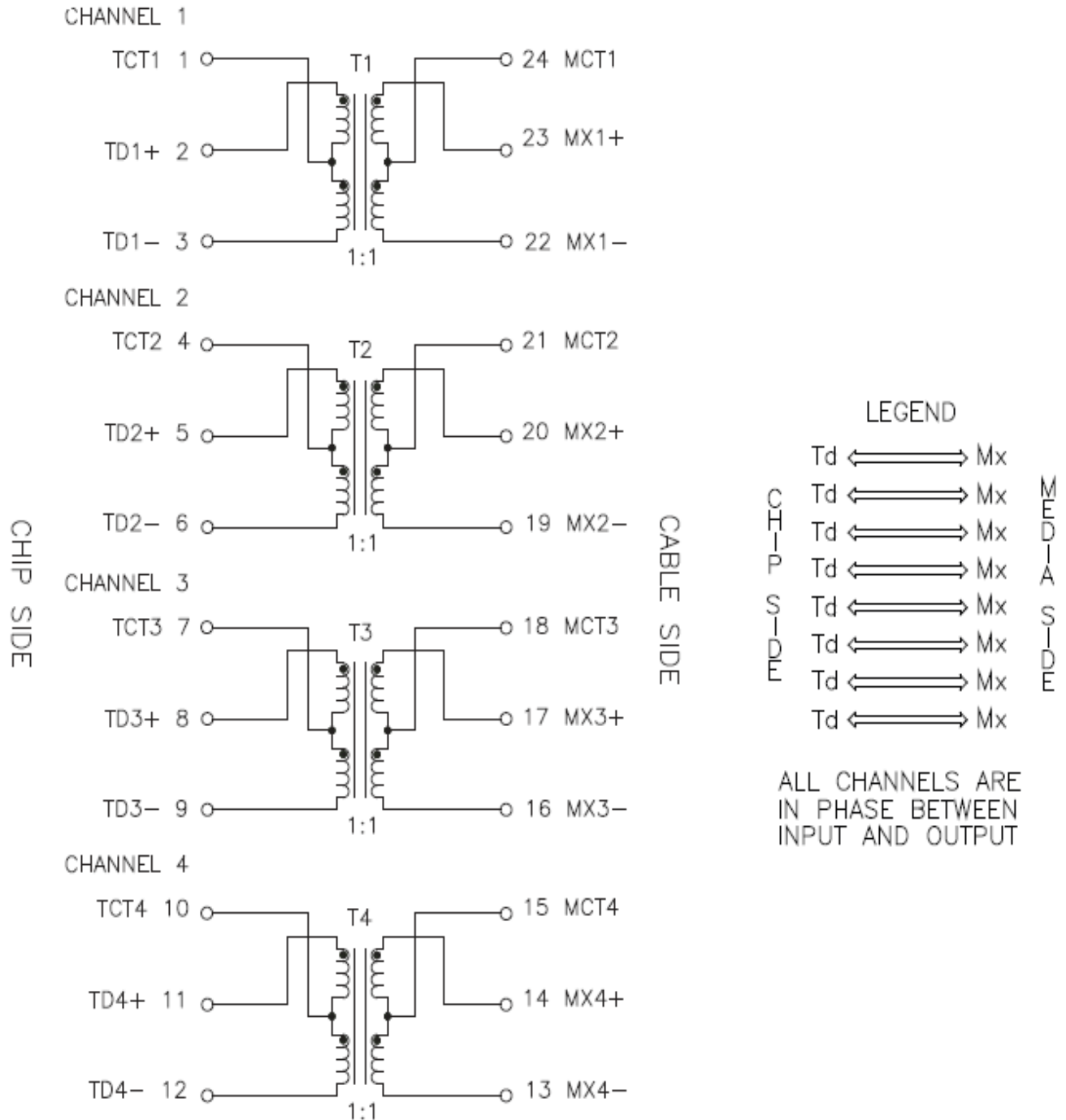


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Electrical Schematic

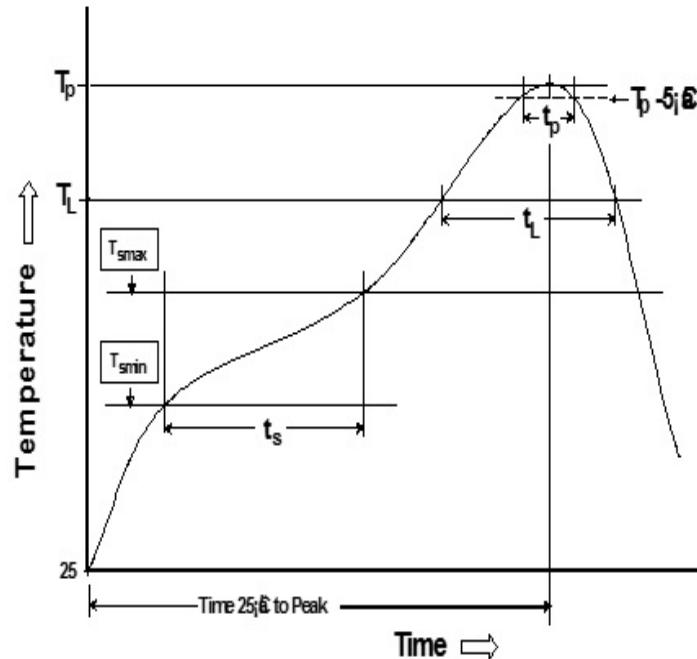
1000B-5016



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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.

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