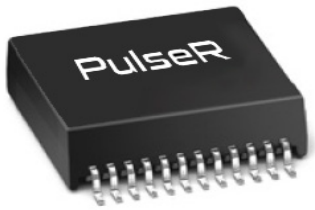


1000BASE-T Transformer Modules

Ruggedized



- Compliant with IEEE 802.3 Standard
- 350H OCL with 8mA DC
- Epoxy encapsulated package withstands 235°C peak temperature profile
- Storage temperature: -40°C to 125°C
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C - Operating Temperature -40°C to +85°C

Part Number	Inserted Loss (dB MAX)	Return Loss (dB MIN)				Crosstalk (dB MIN)			Differential to Common Mode Rejection (dB MIN)			Hipot (Vrms)
		0.1-100MHz	1-30MHz	60MHz	80MHz	100MHz	30MHz	60MHz	100MHz	30MHz	60MHz	
1000B-5012	-1.2	-18	-12	-10	-8	-43	-37	-33	-43	-37	-30	1500

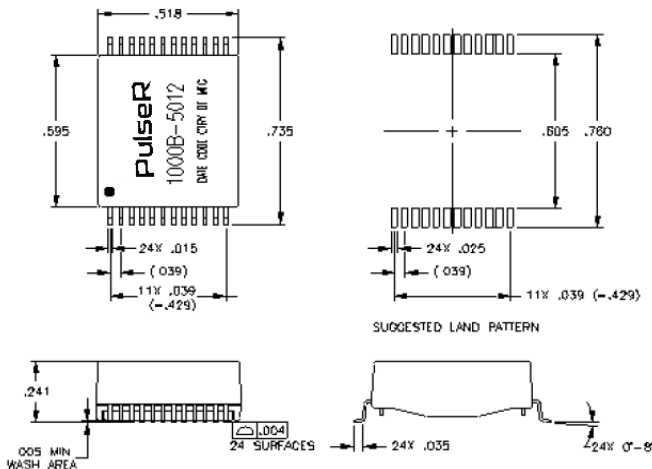
Notes:

1. OCL are measured at 0.1Vrms, 100kHz with 8mA dc bias @ -40°C to +85°C
2. For Tape & Reel packaging, add the suffix "T" to the end of the part number when ordering (e.g. 1000B-5012T).
3. "NL" suffix indicates a RoHS compliant part (i.e. 1000B-5012NL)
4. IC grade transfer-molded package withstands 235°C peak temperature profile RoHS version withstands 245°C

Mechanical

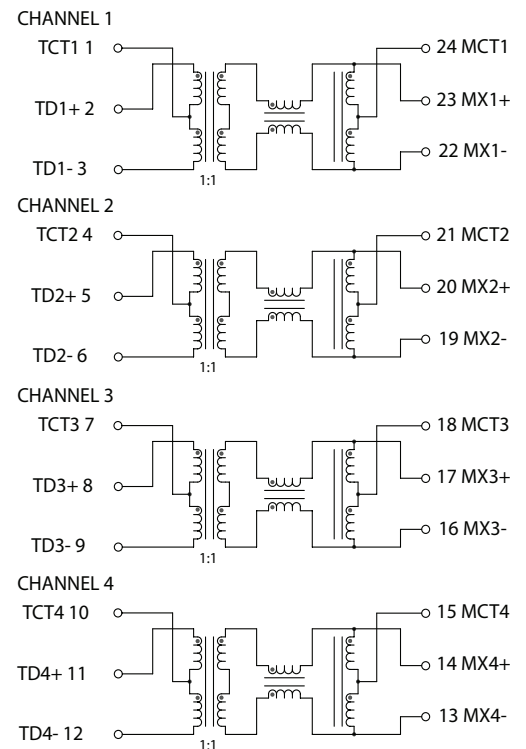
Schematic

1000B-5012

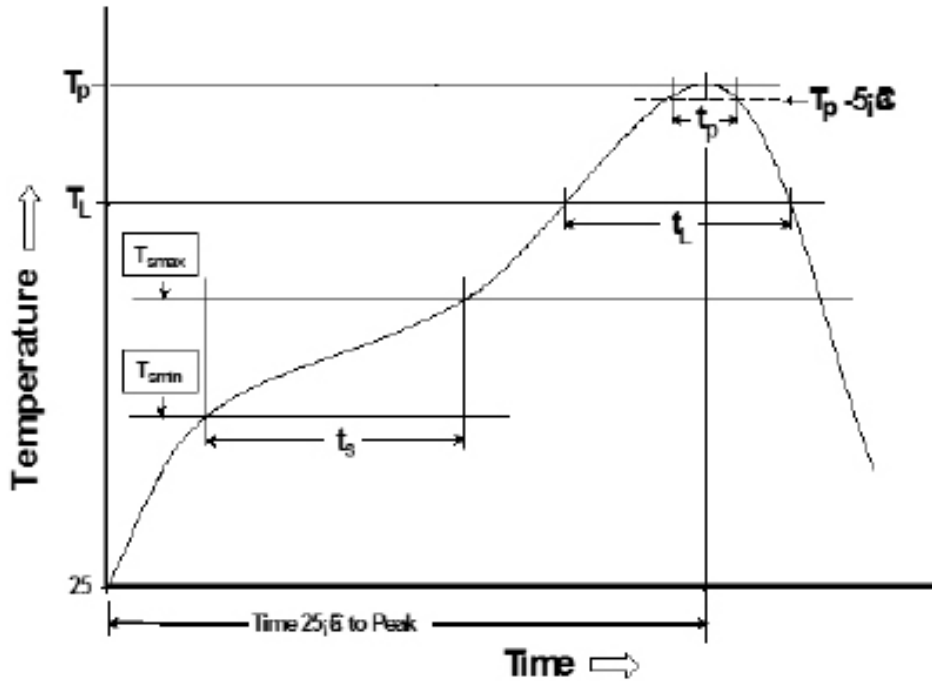


Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± 0.10
0,25

Weight.....1.6grams
Tube.....35/tube
Tape&Reel.....350/reel



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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