

1000 BASE-TX 30W PoE+ TRANSFORMER MODULE

Ruggedized

- Compliant with IEEE 802.3at for 1000Base-T
- 150 μ H MIN OCL with 24mA DC
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- Storage Temperature: -55°C to +125°C
- Operating Temperature: -40°C to +85°C
- Lead Finish: Sn63/Pb37
- Moisture Sensitivity Level: 3

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)					Return Loss (dB MIN)				Crosstalk (dB MIN)			DM to CM Rejection (dB MIN)		
	0.10 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
1000B-5017F	1.2	1.2	1.2	1.2	1.2	18	14	10	8	40	35	30	43	37	33

NOTES:

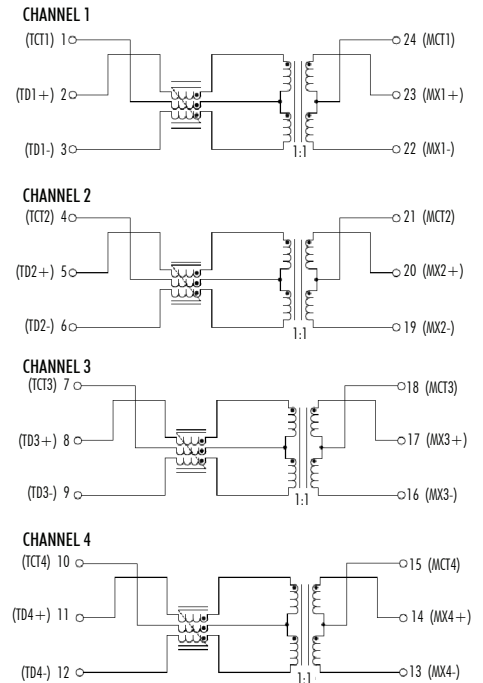
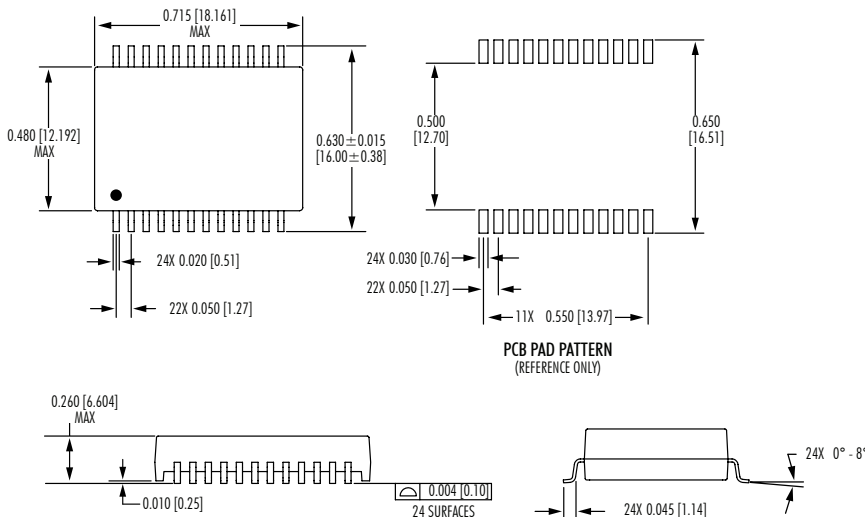
- Add suffix "NL" for RoHS compliant version; i.e. 1000B-5017F becomes **1000B-5017FNL**. NL parts have 100% SN Lead Finish.
- For Tape and Reel Packaging, add "T" suffix at the end of the part number; i.e. **1000B-5017FT**.

Mechanicals

Electrical Schematics

1000B-5017F

Dimensions: inch [mm]
Tolerance (unless otherwise specified): ± 0.010 [0.25]



LEGEND

C H Td $\longleftrightarrow$ M E
P Td $\longleftrightarrow$ Mx I
S Td $\longleftrightarrow$ Mx A
I Td $\longleftrightarrow$ Mx S
D Td $\longleftrightarrow$ Mx I
E Td $\longleftrightarrow$ Mx D

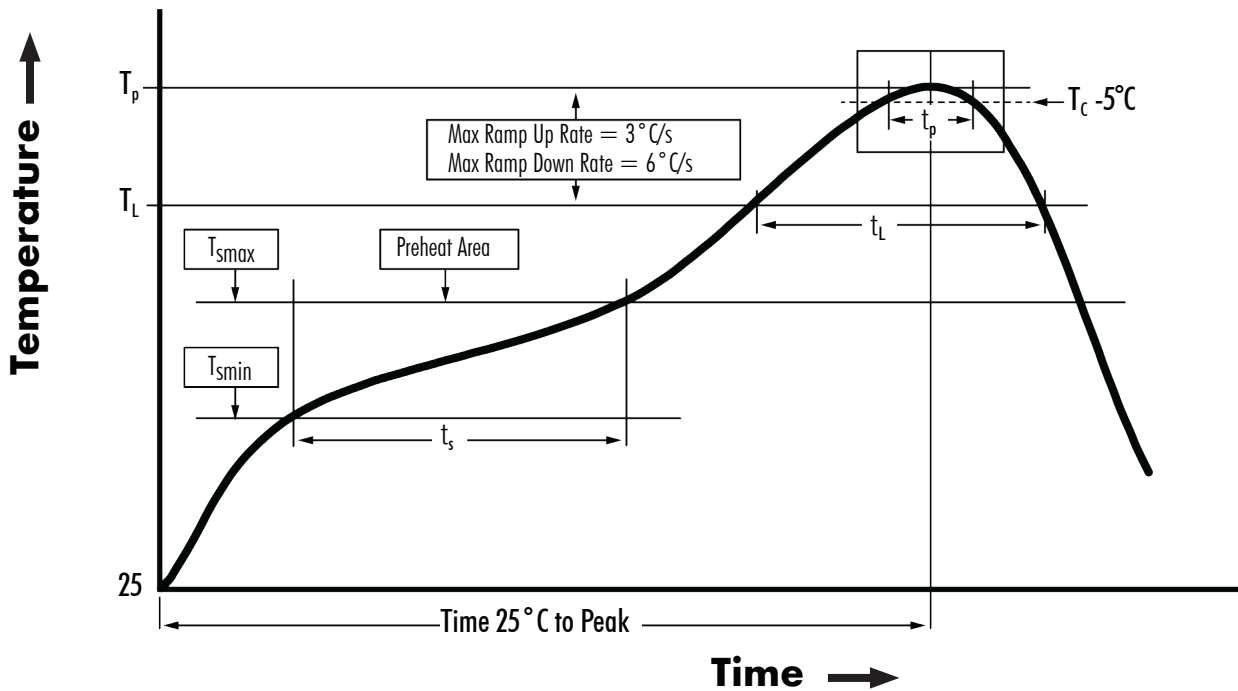
All channels are in phase between input and output



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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)
Tin/Lead Profile									
100	150	183	220	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360
Non-Lead Profile									
150	200	217	245	60 - 120	60 - 150	30	3°C/s MAX	6°C/s MAX	480

NOTES:

- 1. All temperatures measured on the package leads.
- 2. Maximum number of reflow cycles not to exceed 2.



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