

1000 BASE-T DUAL PORT TRANSFORMER MODULE

Industrial Grade

- Compliant with IEEE 802.3 standards
- 350 μ H OCL with 8mA D.C.bias at 100KHz, 100mV
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- Operating Temperature: -40°C to +85°C
- Lead Finish: Pure Tin
- Moisture Sensitivity Level: 1

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)				Return Loss (dB MIN)				Crosstalk (dB MIN)			DM to CM Rejection Ratio (dB MIN)		
	0.10 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz
R5003NL	1.2	1.2	1.2	1.2	18	14	11	9	43	37	33	43	37	33

NOTES:

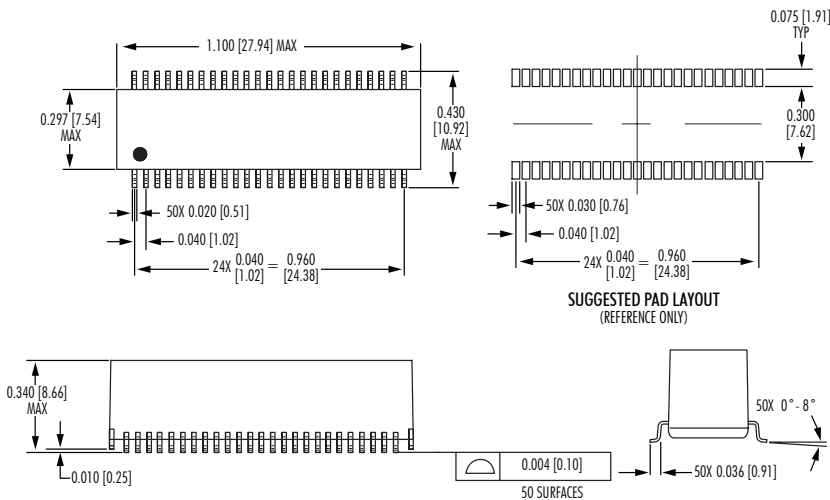
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. R5003NLT.
- Country of Origin: China

Mechanicals

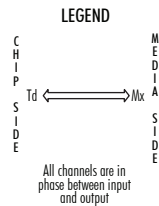
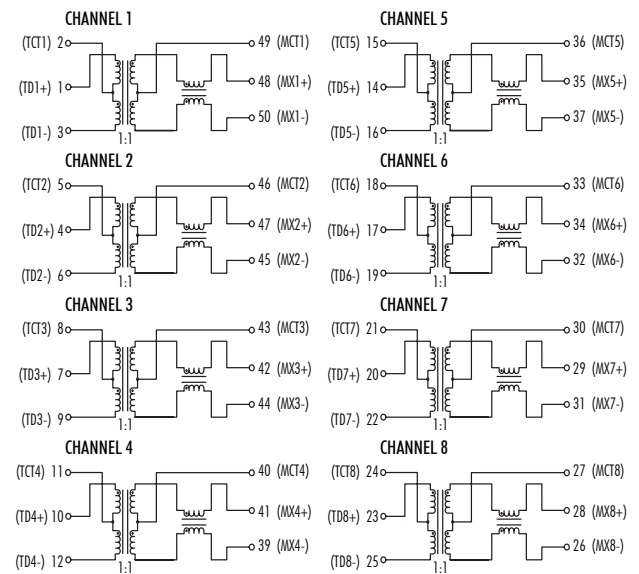
Electrical Schematics

R5003NL

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



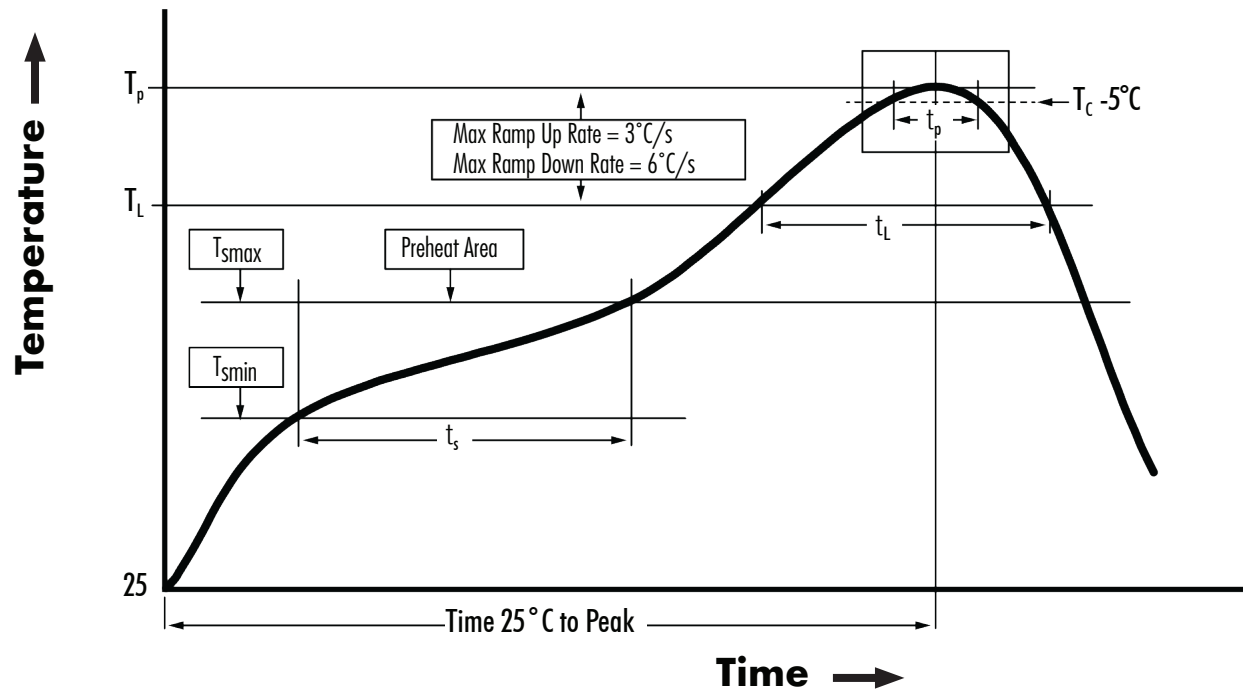
Weight:4.60 grams MAX
Tape & Reel:250 pcs/reel
Tube:15 pcs/tube



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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)
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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