

1000 BASE-T SINGLE PORT TRANSFORMER MODULES

Industrial Grade

- Compliant with IEEE 802.3 standard
- 350µH OCL with 8mA D.C.bias at 100KHz, 100mV
- Operating Temperature: -40°C to +85°C
- Dielectric Withstanding Voltage (DWV): 1500 Vrms
- 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)			Common Mode Rejection Ratio (dB MIN)			DM to CM Rejection Ratio (dB MIN)		
	0.10 MHz	30 MHz	60 MHz	100 MHz	5 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	100 MHz
R5033NL	1.2	1.2	1.2	1.2	18	18	14	12	10	43	37	31	33	30	25	43	37	33

NOTES:

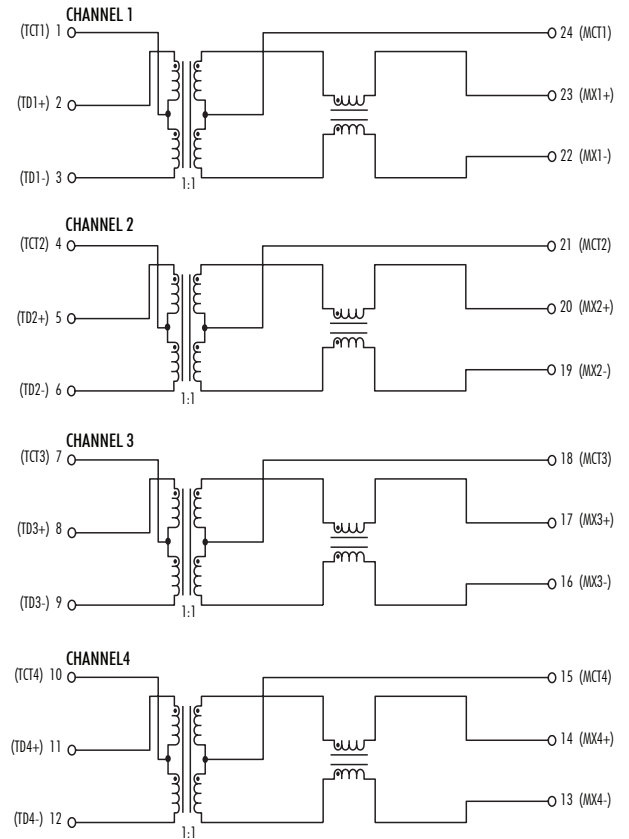
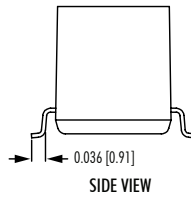
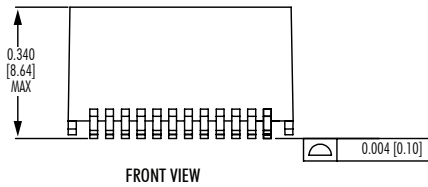
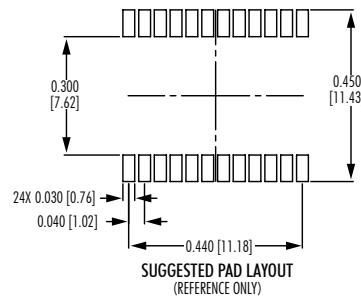
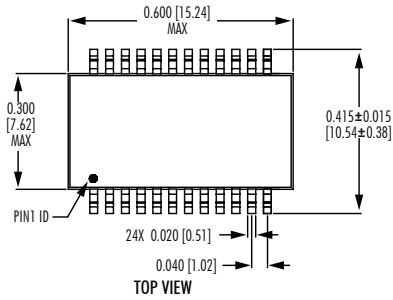
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. R5033NLT
- Country of Origin: China

Mechanicals

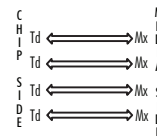
Electrical Schematics

R5033NL

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



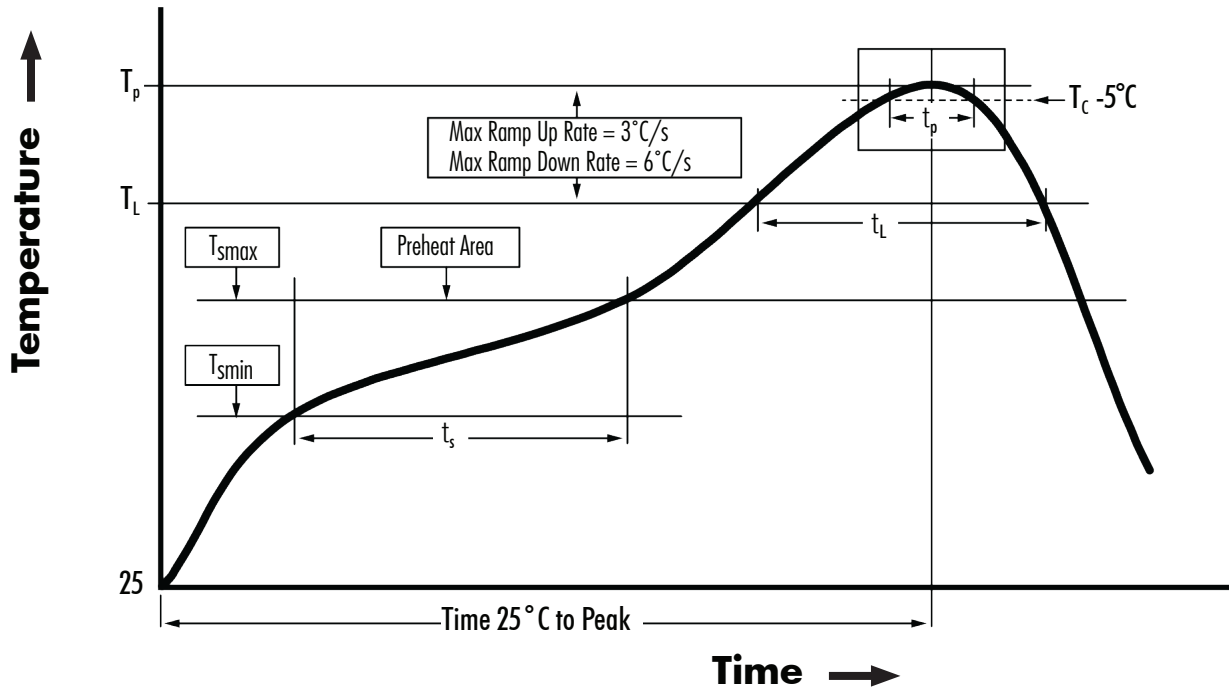
LEGEND



All channels are in phase between input and output



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)
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.

