

10/100 BASE-T SINGLE PORT  
TRANSFORMER MODULE

Industrial Grade

- Compliant with IEEE 802.3 standards
- 350μH 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	50 MHz	60 MHz	80 MHz	30 MHz	60 MHz	80 MHz	30 MHz	60 MHz	100 MHz
R1001NL	1.2	1.2	1.2	1.2	18	14	12	10	44	40	35	42	37	32

NOTES:

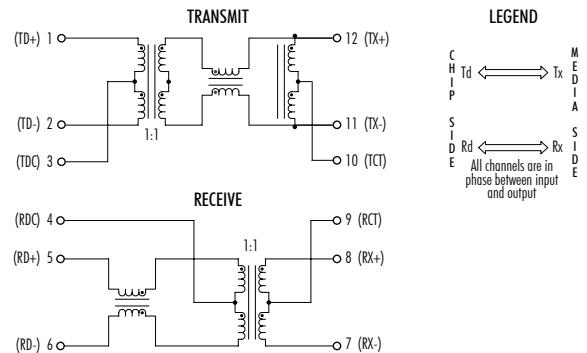
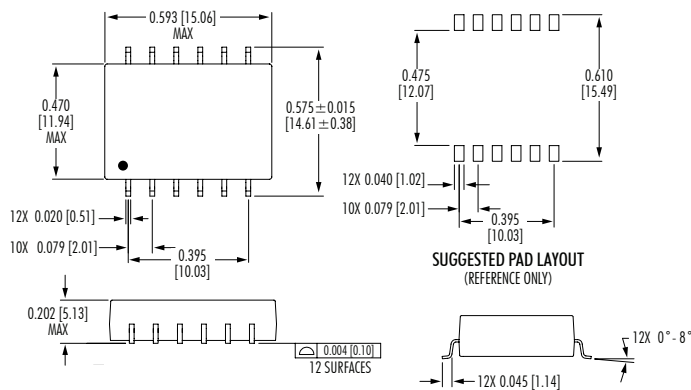
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. R1001NLT.
- Country of Origin: China

Mechanicals

Electrical Schematics

R1001NL

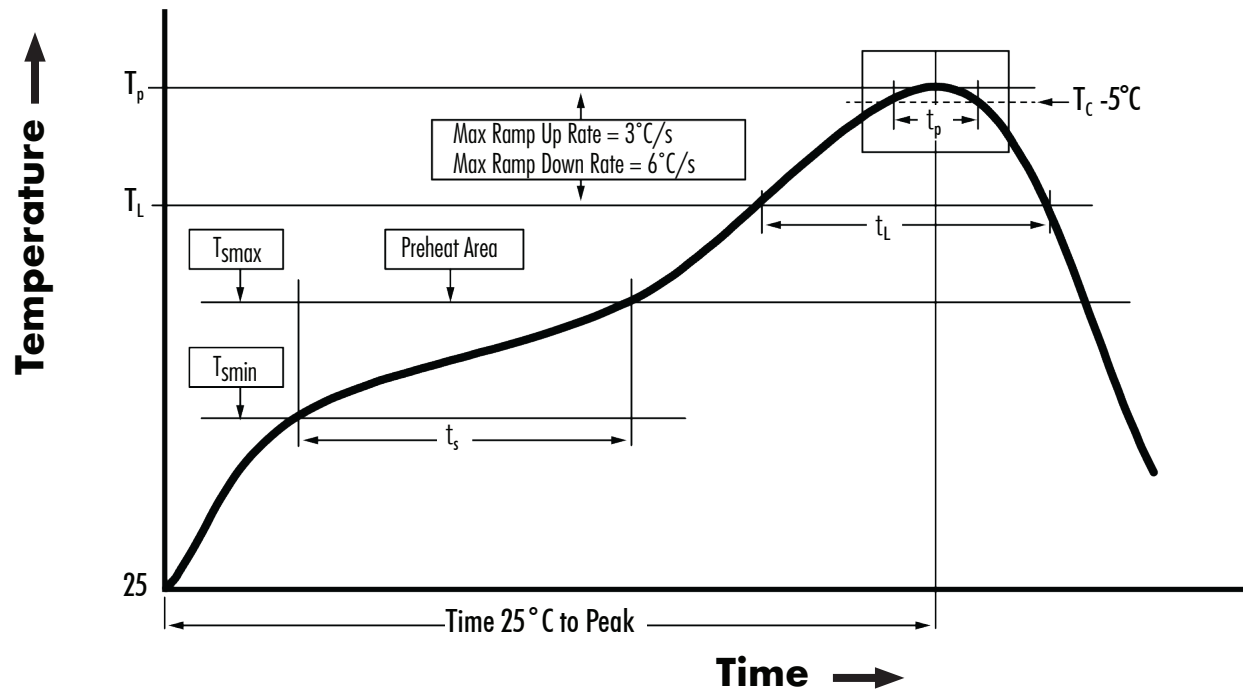
Dimensions: inch [mm]  
Tolerance (unless otherwise specified): ±0.010 [0.25]



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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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