

# 1000BASE-T SINGLE PORT TRANSFORMER MODULE

- ⊗ OCL 200μH MIN with 8mA DC bias, at 100kHz 100mV
- ⊗ Operating Temperature: -40°C to +85°C
- ⊗ Storage Temperature: -55°C to +125°C
- ⊗ Dielectric Withstanding Voltage (DWV): 1500 Vrms
- ⊗ Low profile surface mount package, open construction
- ⊗ Lead Finish: Sn100
- ⊗ Moisture Sensitivity Level: 1

## Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)				Return Loss (dB MIN)				Crosstalk (dB MIN)			Common Mode Rejection (dB MIN)		
	0.10 MHz	30 MHz	60 MHz	100 MHz	40 MHz	60 MHz	80 MHz	100 MHz	32 MHz	62 MHz	100 MHz	30 MHz	60 MHz	100 MHz
1000B-5039NL	1.2	1.2	1.2	1.2	16	12	10	8	43	37	33	31	25	20

### NOTES:

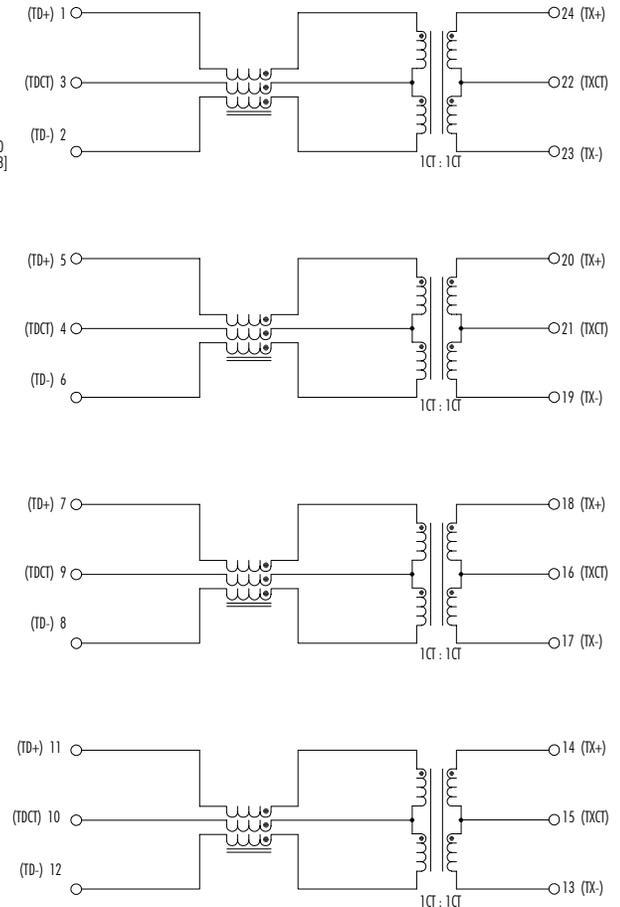
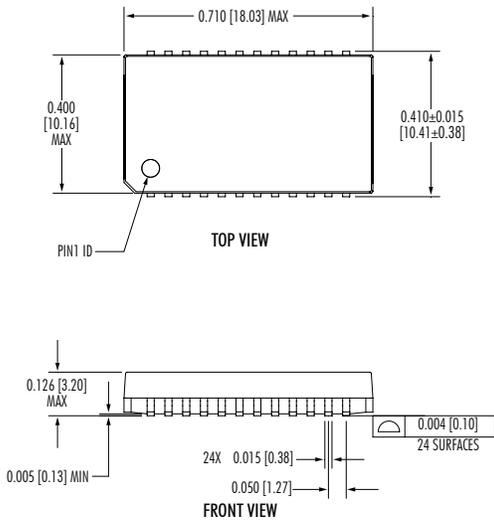
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. 1000B-5039NLT

### Mechanicals

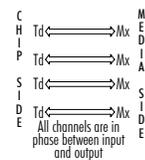
### Electrical Schematics

1000B-5039NL

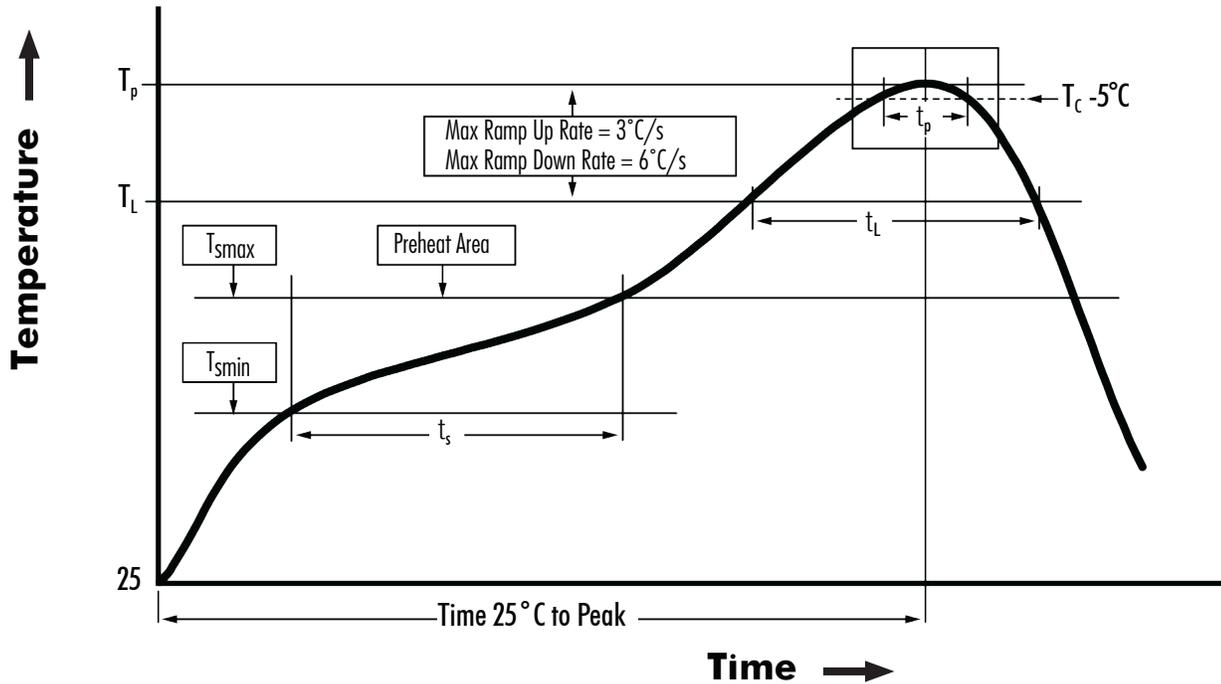
Dimensions: inch [mm]  
Tolerance (unless otherwise specified): ±0.010 [0.25]



### LEGEND



## 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.

