

100BASE - T SINGLE PORT TRANSFORMER MODULE

Ruggedized

- Compliant with IEEE 802.3 standards
- 350 μ H OCL with 8mA DC bias to 100KHz, 100mV
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -55°C to +125°C
- Dielectric Withstanding Voltage (DWV): 1500 Vrms MAX
- Lead Finish: Sn100
- Moisture Sensitivity Level: 1
- Low profile surface mount package, Open construction

Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)				Return Loss (dB MIN)					Crosstalk (dB MIN)				CM to CM Rejection Ratio (dB MIN)				
	0.10 MHz	30 MHz	60 MHz	100 MHz	1 MHz	40 MHz	60 MHz	80 MHz	100 MHz	1 MHz	30 MHz	60 MHz	100 MHz	1 MHz	30 MHz	60 MHz	100 MHz	125 MHz
1000B-5032FNL	1.2	1.2	1.2	1.2	18	16	12	10	8	50	44	37	33	42	31	25	21	19

NOTES:

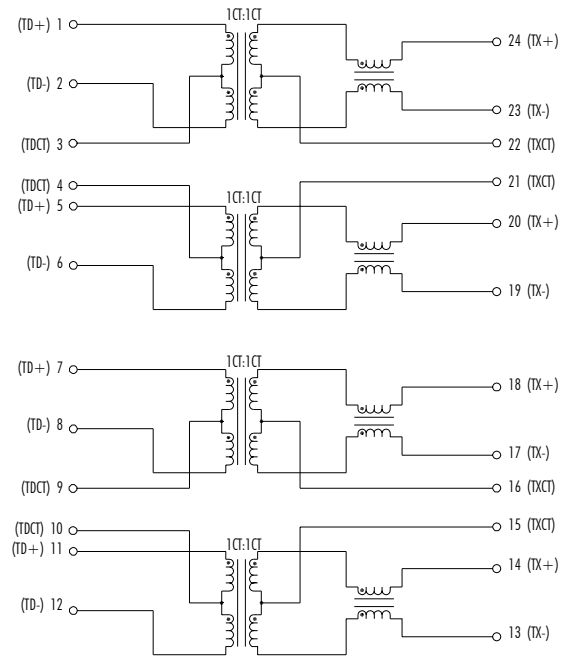
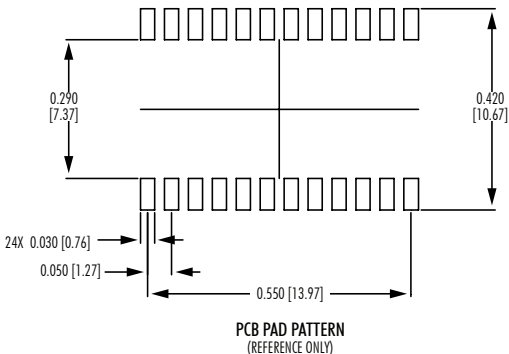
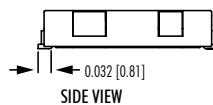
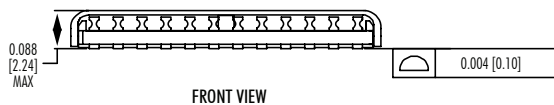
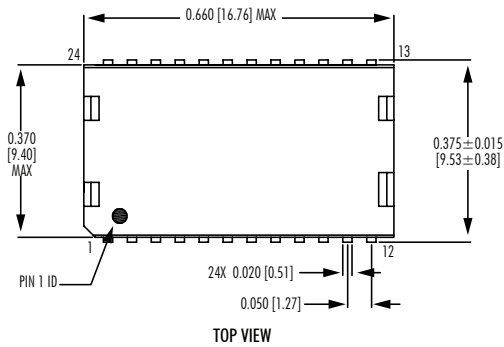
- For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. 1000B-5032FNLT

Mechanicals

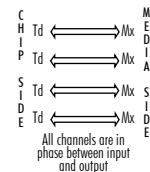
Electrical Schematics

1000B-5032FNL

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



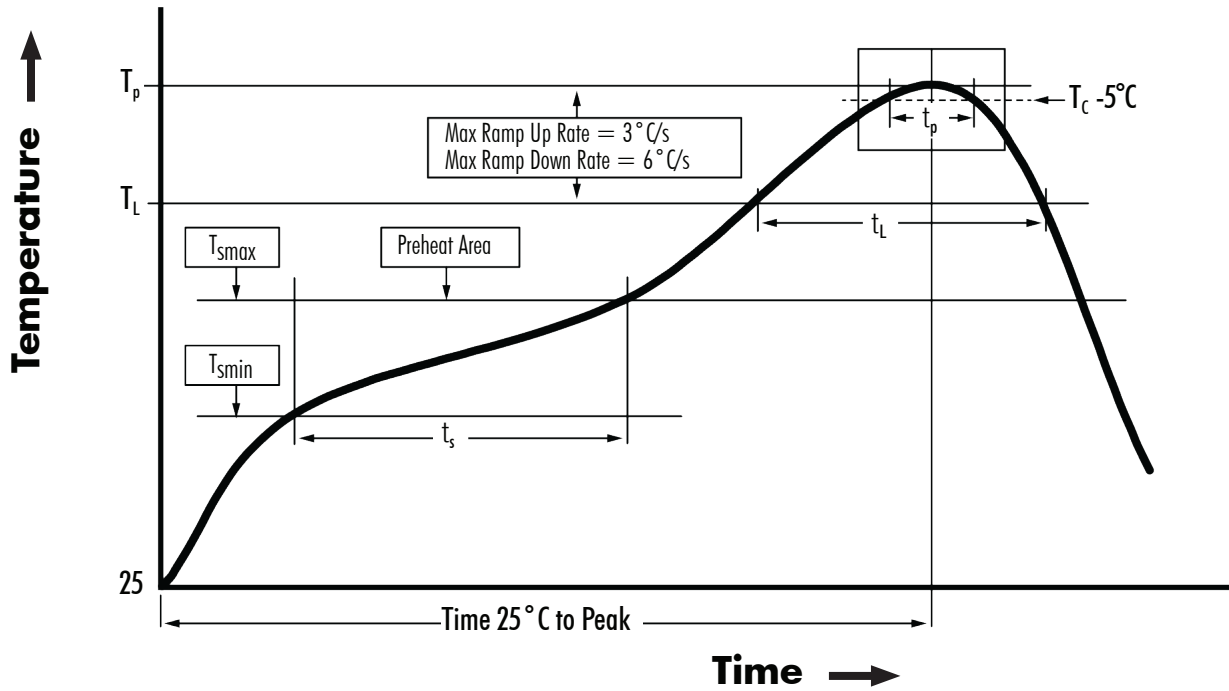
LEGEND



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Recommended Reflow Profile (Based on J-STD-020D)



$T_{S_{MIN}}$ (°C)	$T_{S_{MAX}}$ (°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.



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