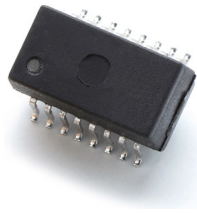


10/100BASE - TX SINGLE PORT TRANSFORMER MODULE

Ruggedized



- ⦿ Compliant with IEEE 802.3 standards
- ⦿ 350µH OCL with 8mA DC bias
- ⦿ Operating Temperature: -55°C to +125°C
- ⦿ Lead Finish: Sn63Pb37
- ⦿ Moisture Sensitivity Level: 3



Electrical Specifications @ 25°C

Part Number	Insertion Loss (dB MAX)					Return Loss (dB MIN)					Crosstalk (dB MIN)				DM to CM Rejection (dB MIN)				CM to CM Rejection (dB MIN)			
	0.10 MHz	1 MHz	30 MHz	60 MHz	100 MHz	2 MHz	30 MHz	50 MHz	60 MHz	80 MHz	1 MHz	30 MHz	60 MHz	100 MHz	1 MHz	30 MHz	60 MHz	100 MHz	1 MHz	30 MHz	60 MHz	100 MHz
100B-1027FX	1.5	1.5	1.5	1.5	1.5	18	18	14	12	10	50	45	38	33	42	37	33	33	40	35	30	30

NOTES:

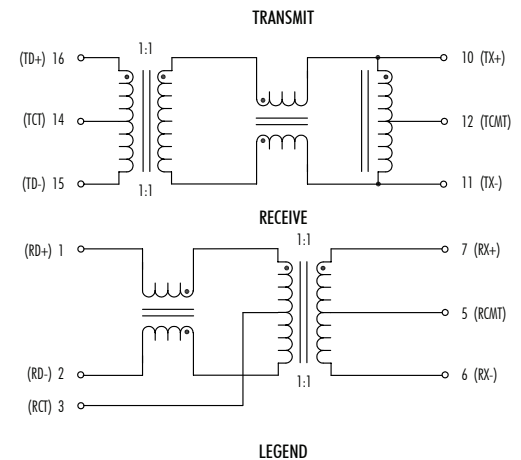
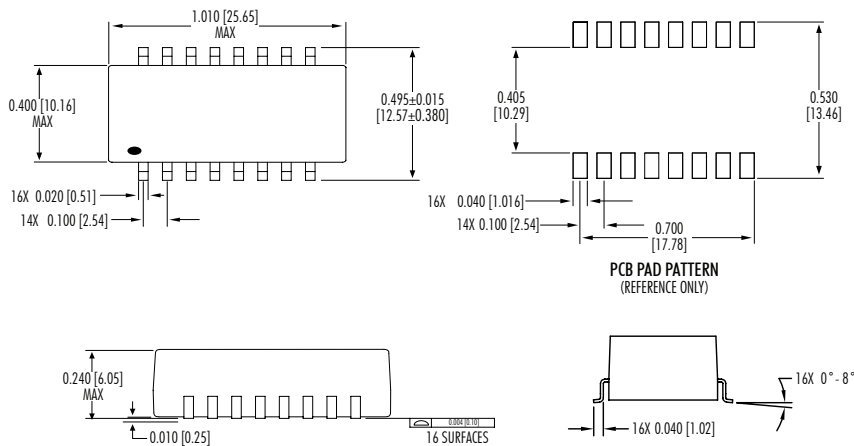
1. Add suffix **"NL"** for RoHS compliant version; i.e. 100B-1001 becomes **100B-1027FXNL**. NL parts have 100% SN Lead Finish (MSL:3)
2. For Tape & Reel packaging, add **"T"** suffix at the end of the part number: i.e. **100B-1027FXNLT**.

Mechanics

Electrical Schematics

100B-1027FX

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



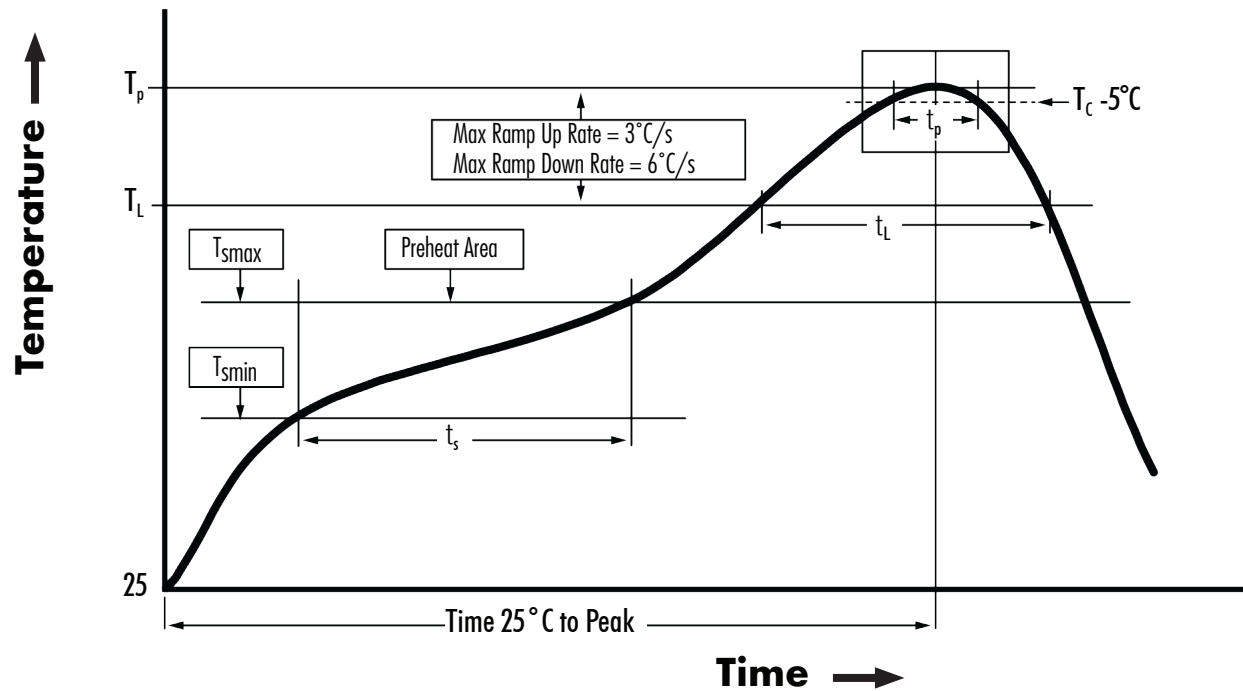
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- M197.F (04AUG25)

10/100BASE - TX SINGLE PORT
TRANSFORMER MODULE

Ruggedized

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)
Tin/Lead Profile									
100	150	183	220	60 - 120	60 - 150	20	3°C/s MAX	6°C/s MAX	360
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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