

# 10/100BASE - TX SINGLE PORT TRANSFORMER MODULE



Ruggedized

- ⊗ 10K VAC for 60 second
- ⊗ 350μH OCL with 8mA DC
- ⊗ Operating Temperature: -40°C to +85°C
- ⊗ Storage Temperature: -55°C to +125°C
- ⊗ Pure tin finish
- ⊗ Withstands 245°C Max Reflow Temperature
- ⊗ Moisture Sensitivity Level: 3
- ⊗ RoHS6

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	80 MHz	100 MHz	5 MHz	30 MHz	50 MHz	60 MHz	80 MHz	100 MHz	1 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	200 MHz
X-1644FNL	1.0	1.0	2.0	2.5	3.5	18	9	6	5	3	2	45	30	27	25	36	32	30	25

## NOTES:

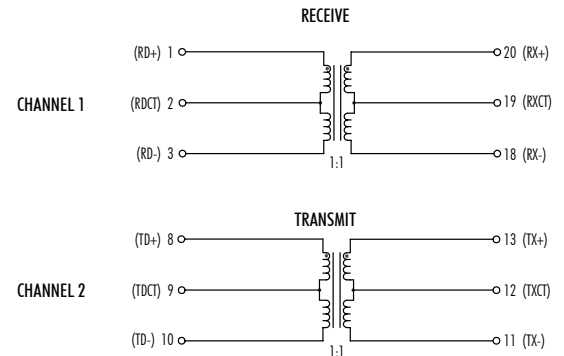
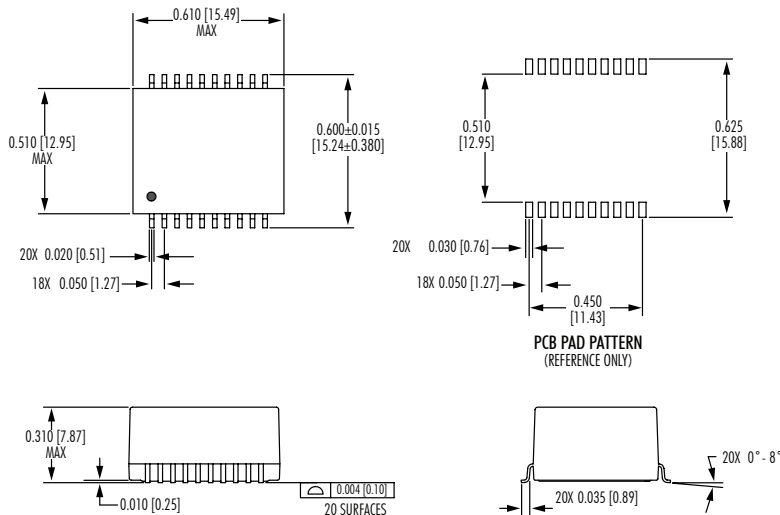
1. For Tape & Reel packaging, add "T" suffix at the end of the part number: i.e. X-1644FNLT

## Mechanicals

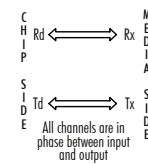
## Electrical Schematics

X-1644FNL

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



### LEGEND

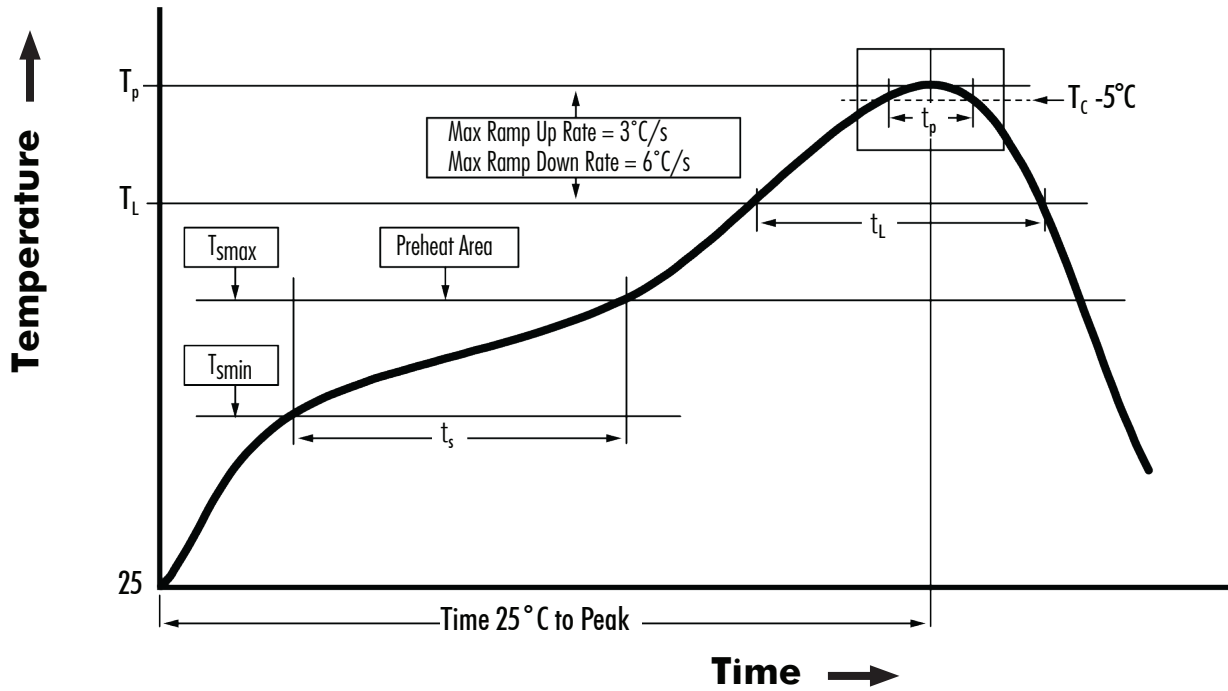


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## Tin/Lead Recommended Reflow Profile (Based on J-STD-020D)



$T_{SMIN}$ (°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 times of reflow cycle: 2



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