



# 10/100 BASE-T ETHERNET ISOLATION TRANSFORMER

## P/N: TS8121U LF DATA SHEET

### Feature



- Designed to meet IEEE 802.3u requirement, including 350uH OCL with 8mA bias.
- Comply with RoHS requirements-whole part No Cd, No Hg, No Cr6+, No PBB and PBDE and No Pb on external pins.
- Comply with Air reflow profile of JEDEC 020C.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -25°C to +125°C.

### Electrical Specifications @ 25°C

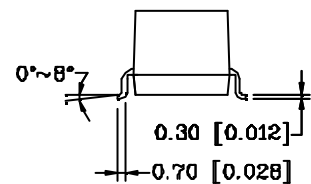
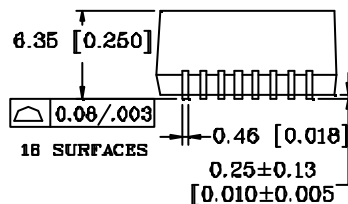
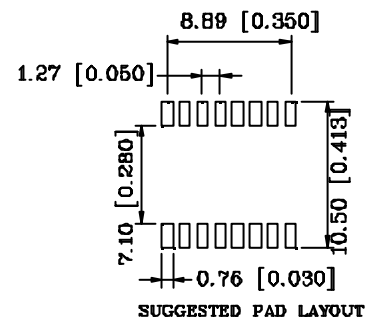
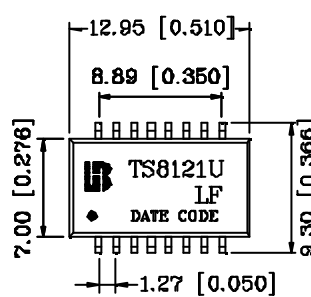
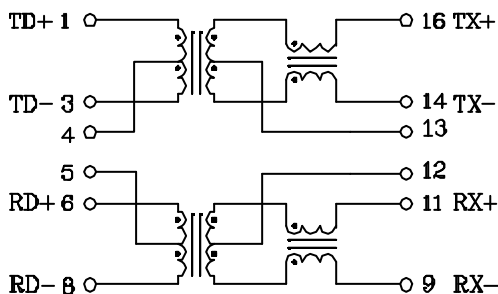
Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100KHz/0.1V with 8mA DC Bias	DCR ( Max)	HI-POT (Vrms)
	TX	RX			
TS8121U LF	1CT:1CT	1CT:1CT	350	0.65	1500

### Continue

Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)			Cross talk (dB Min)		DCMR (dB Min)		
		0.3-100MHz	1-30MHz	30-60MHz	60-80MHz	0.3-60MHz	60-100MHz	30MHz	60MHz
TS8121U LF	-1.2	-18	-14	-12	-45	-35	-40	-35	-30

### Schematic

### Mechanical



Units: mm [Inches] Tolerances: xx.x0±0.25 [0.010]  
0.xx±0.05 [0.002]