



# 1000 BASE-T SINGLE PORT TRANSFORMER MODULE

P/N: ML24S45TRS

## Feature

- Designed to meet IEEE802.3bt requirement
- Designed to meet IR 260°C peak requirement
- Primary inductance 350uH min with 18mA DC Bias; 120uH min with 30mA DC Bias
- Meet 1.4A min. balanced DC current per pair
- ROHS Compliant
- Operating temperature range:-40°C to+105°C
- Storage temperature range:-25°C to+125°C
- 75W MAX/PAIR ,TOTAL 150W MAX

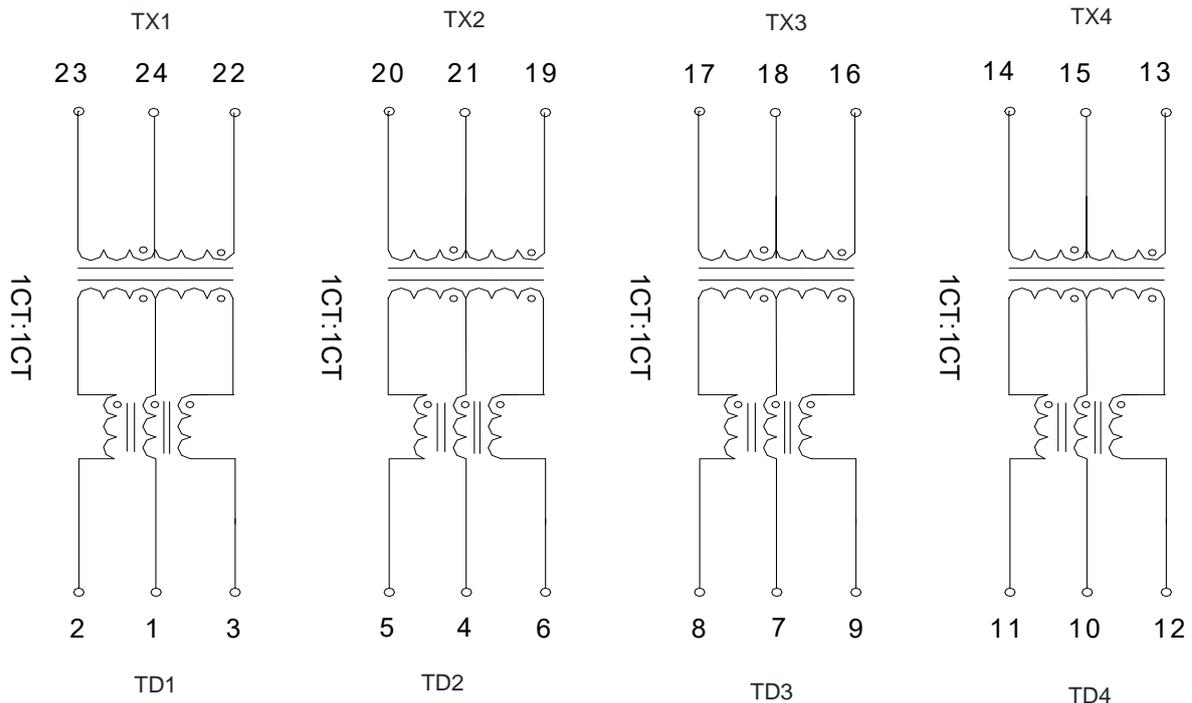
### Electrical Specifications @ 25°C

Part Number	Turn Ratio		Insertion Loss MHz (dB Max)			Return Loss (dB Min)					DCR (Ω Max)	DCR Balance (Ω)
	Tx	Rx	0.1 MHz	30-100 MHz	125 MHz	1-30 MHz	40 MHz	50 MHz	60~80 MHz	100 MHz		
ML24S45TRS	1:1	1:1	-1.1	-1.0	-2.0	-18	-16	-16	-12	-10	0.6	±0.05

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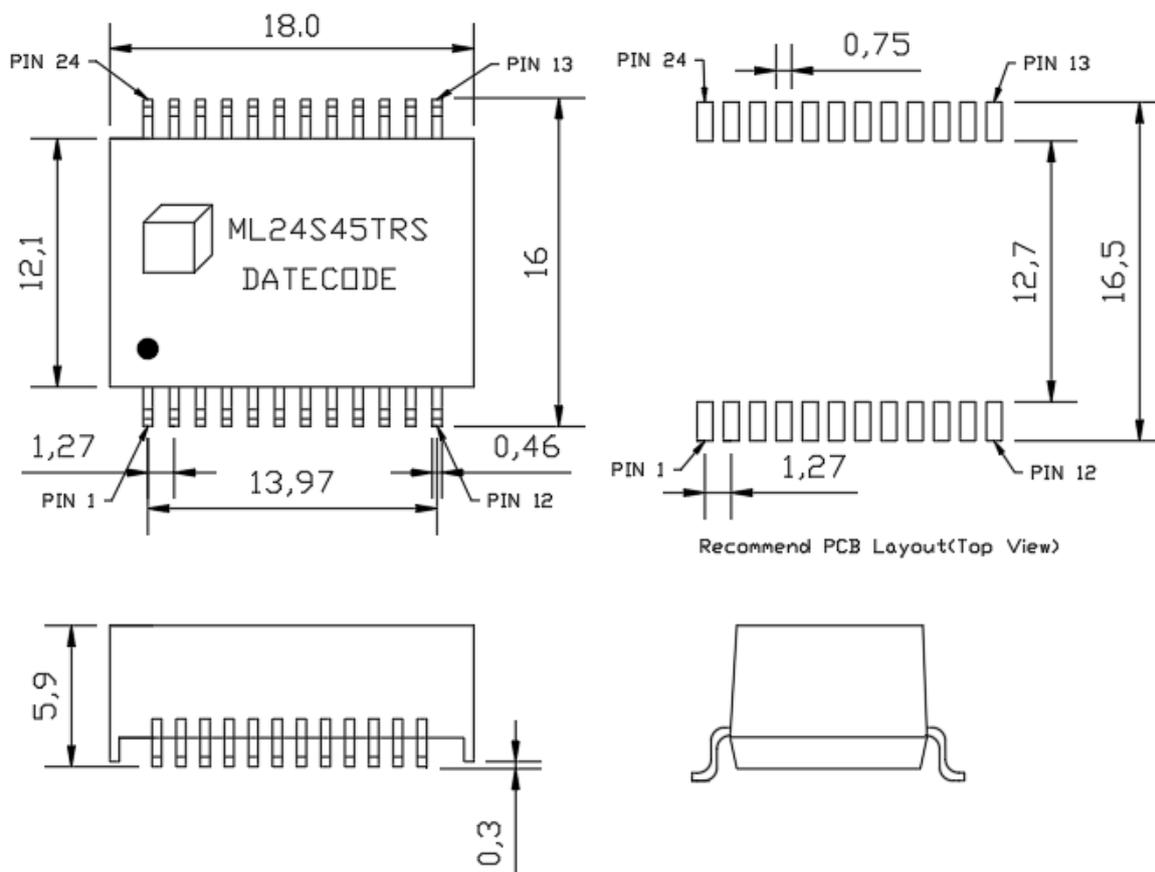
Part Number	Cross Talk (dB Min)				CMRR (dB Min)				Hi-Pot
	1 MHz	30 MHz	60 MHz	100 MHz	1 MHz	30~60 MHz	100 MHz	200 MHz	
ML24S45TRS	-50	-43	-37	-33	-45	-35	-30	-25	1500VRMS

## Schematic





Mechanical



**Dimension:** mm(inch) Unless otherwise specified , all tolerance are +/-0.25(0.01)