



**1000 BASE –T DUAL PORT MAGNETICS MODULES**  
**P/N: ML48S33HF**

- Feature**
- Designed to meet IEEE802.3at Type 1 POE
  - Supports 8 pairs of category 5 UTP cable.
  - Cable interface for isolation and low common mode emissions with Lk 0.45uH Max. @100KHz 0.2V .
  - Meet 350mA current capability.
  - Meet POE Compliant 15.4W Max./Pair, Total 30.8W Max.
  - Comply with ROH S & Halogen Free requirements.
  - Operating temperature range: 0°C to +70°C .
  - Storage temperature range: -25°C to +85°C .

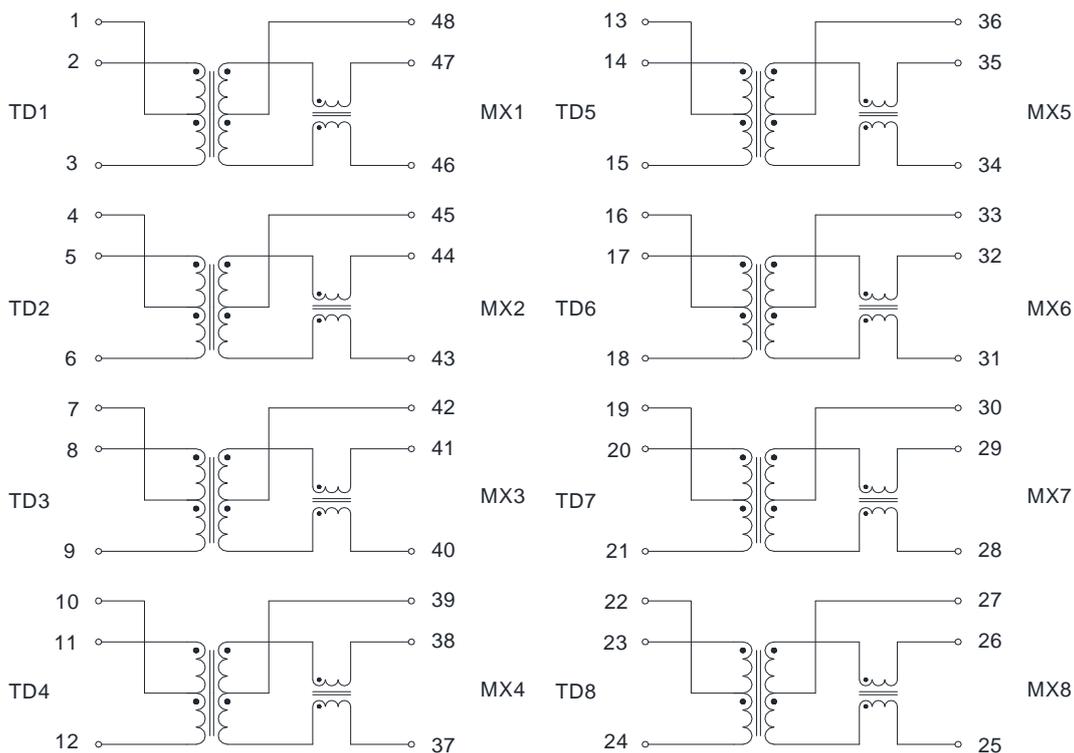
**Electrical Specifications@25°C**

Part Number	Tums Ratio (±5%)		OCL(uH Min) @100KHz/0.1V With 8mA DC Bias	Cross talk Attenuation (dBMin)			HI-POT (Vrms)
	TX	RX		30MHz	60MHz	100MHz	
ML48S33HF	1CT:1CT	1CT:1CT	350	-40	-35	-30	1500

**Continue**

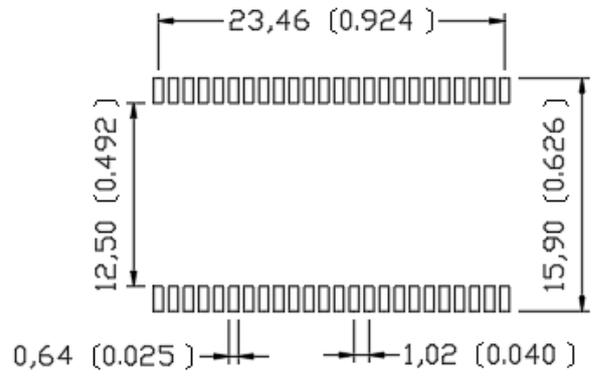
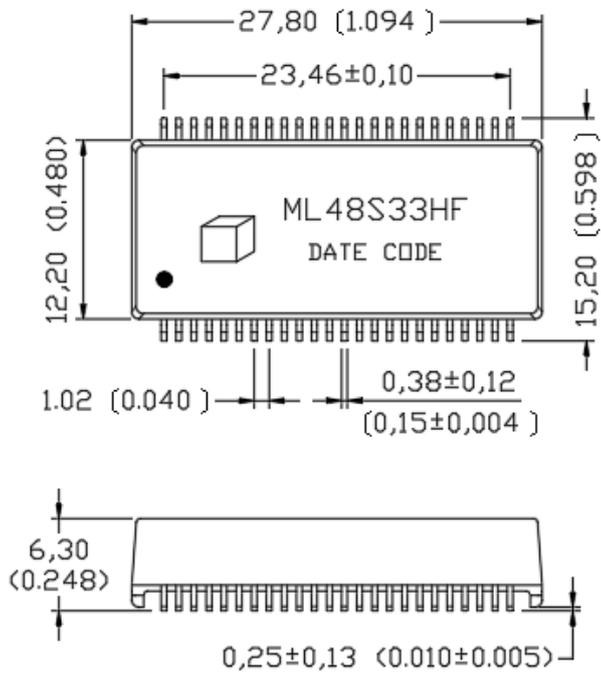
Part Number	Insertion Loss (dB Max)	Return Loss (dB Min)@Load 100Ω					DCMR (dB Min)		
		1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	100MHz	30MHz	60MHz
ML48S33HF	-1.0	-18	-14.4	-13.1	-12	-10	-43	-37	-33

**Schematic**

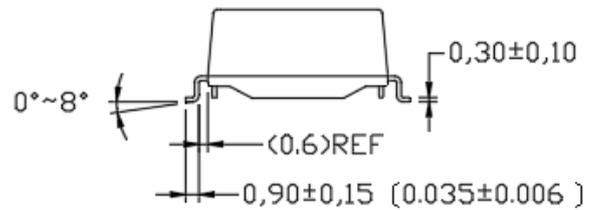




Mechanical



SUGGESTED PAD LAYOUT



Units:mm (Inches) Tolerance:xx.x0±0.25 (0.010)  
0.xx±0.05 (0.002)