



Feature

- Compliant with IEEE 802.3 standard for 2.5G BASE-T ◦
- Designed for reflow soldering at temperatures up to 245°C.
- Compliance with ROHS requirements.
- Operating temperature range: 0°C to +70°C.
- Storage temperature range: -20°C to +125°C.

Electrical Specifications@25°C

Part Number	Tums Ratio (±2%)	Insertion Loss (dB Max)				OCL(μH Min) @100KHz/0.1V	
		100KHz	1-100MHz	100-125MHz	125-250MHz	With 0mA DC Bias	With 11mA DC Bias
ML30S01HF	1CT:1CT	-1.2	-0.2-0.002f ^{1.3}	-1.5	-2.5	180	120

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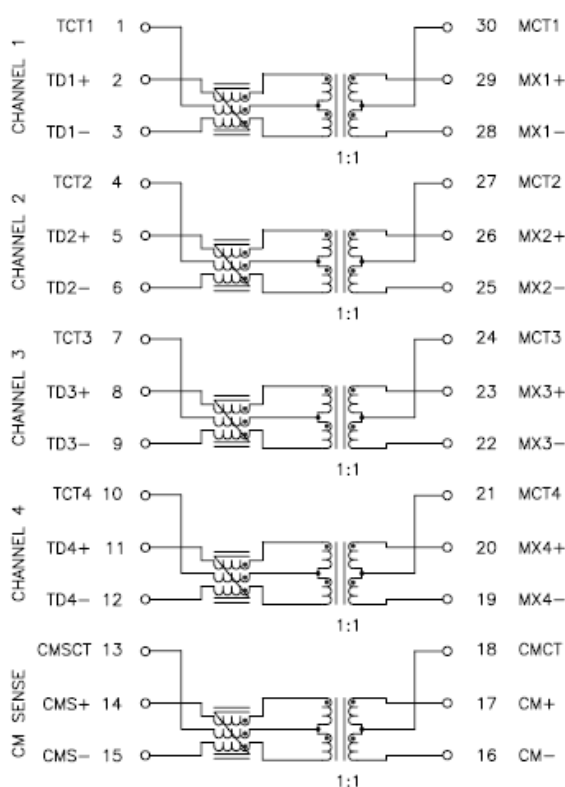
Part Number	Return Loss (dB Min)@Load 100Ω±15%			Crosstalk Adjacent Channels(dB Min)			Isolation Voltage (Vrms)
	0.1-40MHz	40-100MHz	100-125MHz	1MHz	10-100MHz	100-125MHz	
ML30S01HF	-16	-10+20Log(f/80)	-6	-50	-52+22Log(f/10)	-25	2250

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Part Number	Common Mode Rejection Ratio(dB Min)		DC Resistance 1/2 Winding (Ω Max)	DC Resistance Imbalance (mΩ Max)	DC Current Carrying Capability –all pins @70°C (mA Max)
	0.1-100MHz	100-250MHz			
ML30S01HF	-30	-25	0.35	18	750

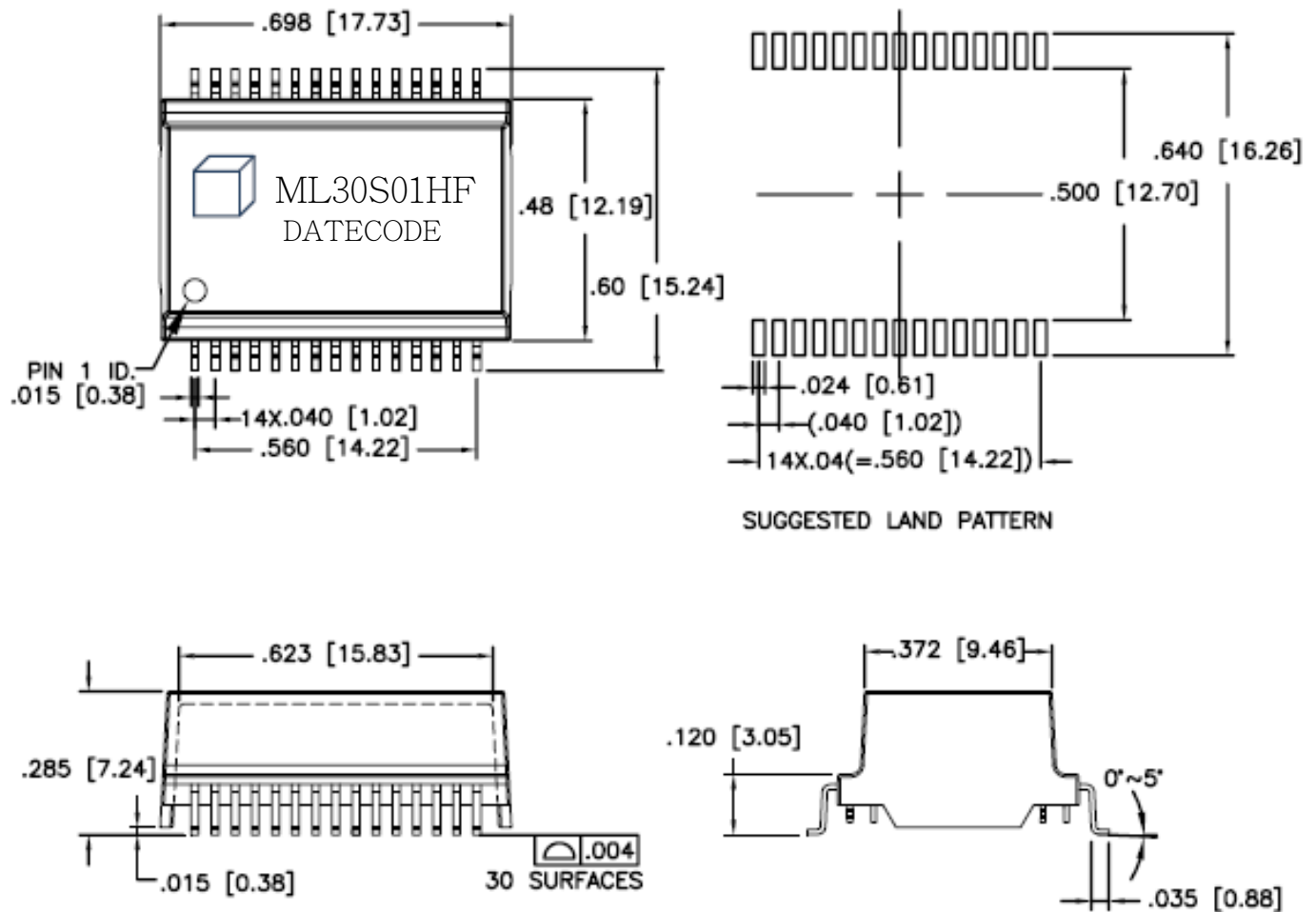
Schematic

NOTE : f is frequency in MHz.





Mechanical



Dimension: inch(mm), tolerance : .XX = ± 0.01
.XXX= ± 0.005