

HIGH FREQUENCY MAGNETICS

T1/E1 Octal Transformer Module

TM01114

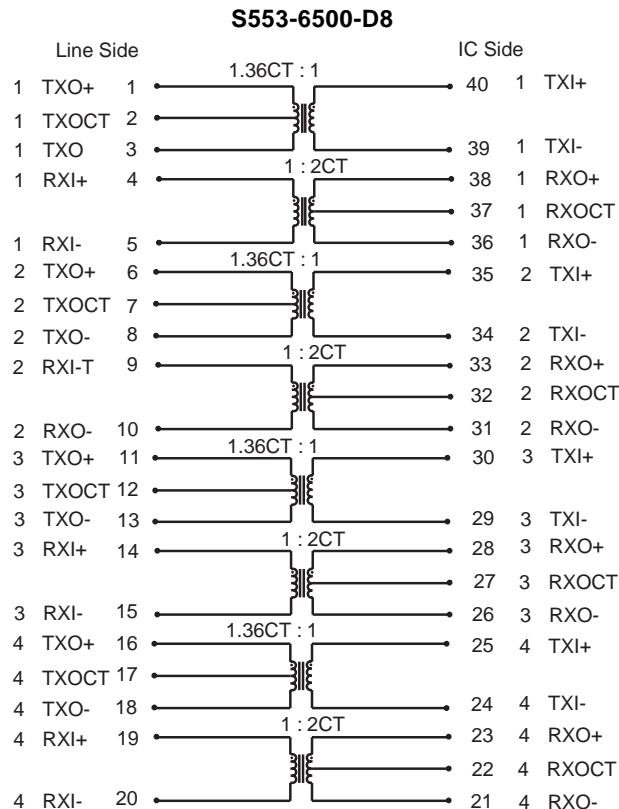
- Optimized for PMC Sierra 4-channel PM4314 device
- Eight transformers in one surface-mount package
- Industrial temperature replacement for S553-6500-69
- Center taps provide EMI suppression
- Meets ITU-T G.703 return loss from -40° to +85° C
- UL 1950 approved: file number E150991
- Operating temperature range -40° to +85°C
- Meets IEC 695, 2-2 flammability requirements
- PWB Process Capability: standard printed wiring board assembly techniques, total-immersion cleaning
- Reliability testing: Shock, vibration, temperature cycling, temperature - humidity - bias
- Interwinding breakdown voltage: 1500 Vrms min

ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±2%		Primary Inductance at 10 kHz		Leakage Inductance at 1 MHz		DCR Ω max				Capacitance pF max	Return Loss at 102 kHz 120Ω Application ¹			
	IC : Line		mH min		μH max		IC Side		Line Side			25° C dB typ		-40 to +85° C dB min	
	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX		TX	RX	TX	RX
S553-6500-D8	1 : 1.36CT	2CT : 1	1.6	1.8	0.6	0.5	0.6	1.4	0.7	0.7	35	17	30	16	18

1. Terminated in 49.7 Ω for TX and 478 Ω for RX

SCHEMATIC

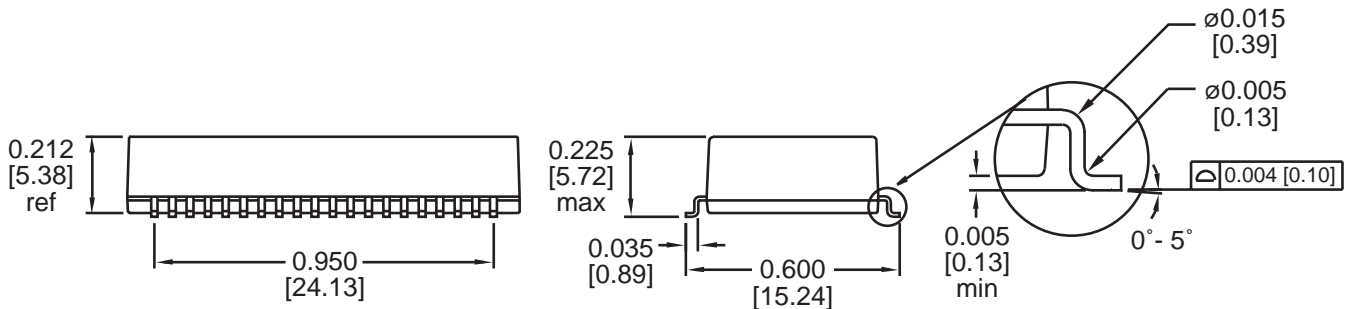
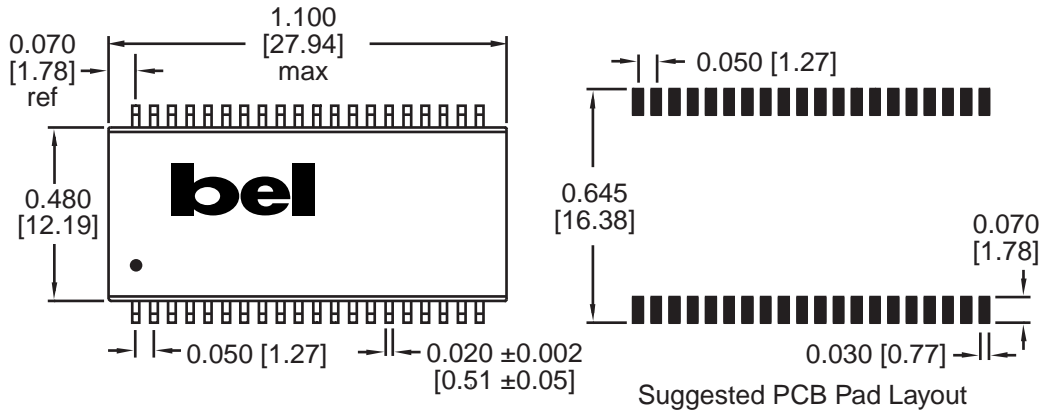


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MECHANICAL

S553-6500-D8



Dimensions are in inches [millimeters].
Standard dimension tolerance is ± 0.005 [0.13] unless otherwise noted.

Tape and Reel Packaging

44 mm wide by 24 mm pitch; 13 inch OD, 6 inch ID
200 modules per reel, maximum
Meets ANSI/EIA 481-2 Carrier Tape Standards - JEDEC SO Package

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