

HIGH FREQUENCY MAGNETICS

T1/E1 Octal Transformer Module

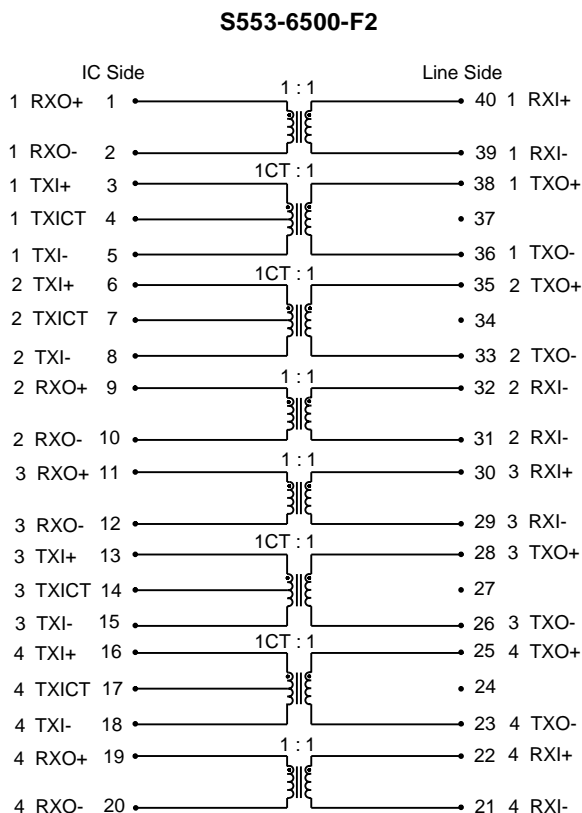
TM02128

- Optimized for Intel LXT3108 eight channel device
- Eight transformers in one surface mount package
- Four transformers have center taps to facilitate line driver circuitry
- Meets ITU-T G.703 return loss from -40° to +85° C from 51 kHz to 3.072 MHz
- 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
	IC : Line		mH min		μH max		IC		Line		
	TX	RX	TX	RX	TX	RX	TX	RX	TX	RX	
S553-6500-F2	1CT : 1	1 : 1	1.8	1.8	0.5	0.5	0.7	0.7	0.7	0.7	35

SCHEMATIC



Return Loss at 102 kHz 120Ω Application ¹			
25° C dB typ		-40 to +85° C dB min	
TX	RX	TX	RX
31	31	19	19

1. Terminated in 120 Ω on IC side

