HIGH FREQUENCY MAGNETICS

T1/E1 Dual Transformer

TM02127

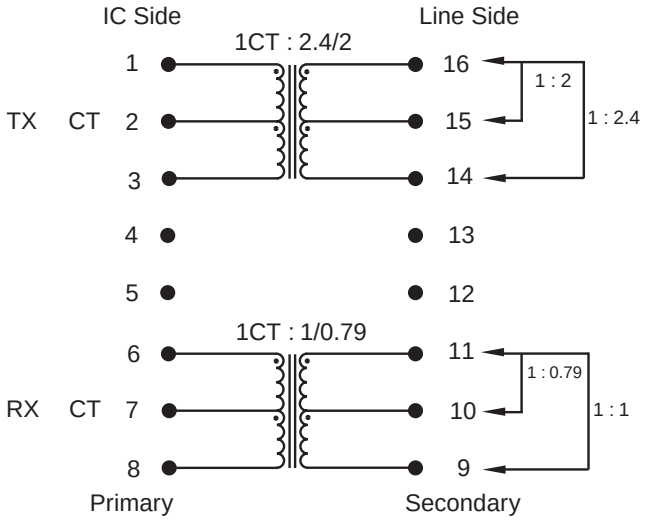
- Optimized for Infineon PEB 2256, PEB 22504 and PEB 22554 line interface devices
- Transmit transformer and receive transformer in one surface mount package
- Multiple transformation ratios available in one dual module using tapped transformers
- Available with line side center taps as S553-6500-A6
- Meets ITU-T G.703 return loss from -40° to +85° C from 51 kHz to 3.072 MHz
- 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
- UL 1950 approved: file number E150991

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		Primary		Secondary		Pri to Sec
	TX[1]	RX[2]	TX	RX	TX	RX	TX	RX	TX	RX	
S553-6500-A5	1CT : 2.4 or 2	1CT : 1 or 0.79	1.8	1.8	0.4	0.5	0.7	0.75	1.7	0.75	35

SCHEMATIC

S553-6500-A5



Return Loss at 102 kHz 120Ω Application[3]			
25° C dB typ		-40 to +85° C dB min	
TX	RX	TX	RX
18	32	18	19

1. 1CT : 2.4 = (1-2-3) : (16-14); 1CT : 2 = (1-2-3) : (16-15)
2. 1CT : 1 = (6-7-8) : (11-9); 1CT : 0.79 = (6-7-8) : (11-10)
3. IC side terminated in 15 Ω for TX (1 : 2.4 operation) and 120 Ω for RX (1 : 1 operation)

Note: Optional receive ratio of 1 : 0.79 allows connection of 75Ω cable to pins 11 and 10 so that IC side resistor of 120Ω can be used for both 75Ω and 120Ω lines.

Bel Fuse Inc. 206 Van Vorst Street, Jersey City, NJ 07302 • Tel 201-432-0463 • Fax 201-432-9542 • www.belfuse.com

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MECHANICAL

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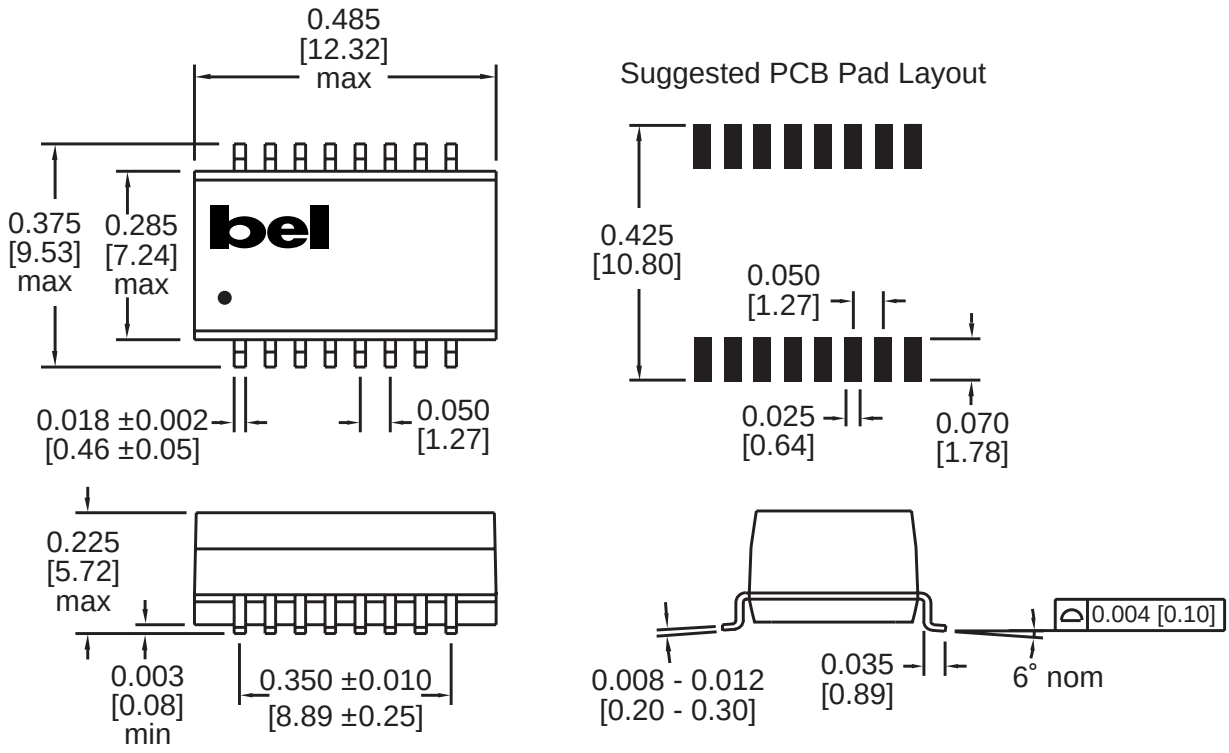

Dimensions are in inches [millimeters].
Standard dimension tolerance is ±0.005 [0.13] unless otherwise noted.

Tape and Reel Packaging

24 mm wide by 12 mm pitch; 13 inch OD, 4 inch ID
750 modules per reel, maximum
Meets ANSI/EIA 481-2 Carrier Tape Standards - JEDEC SO Package

CORPORATE

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