

VOICE OVER IP MAGNETICS

Broadband Transformers

LM00200

- Support 10 Mbps and 100 Mbps VoIP applications
- Compliant with IEEE 802.3 standards
- Designed to meet 350mA balanced DC line current
- 350μH OCL with 8mA bias applied from 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

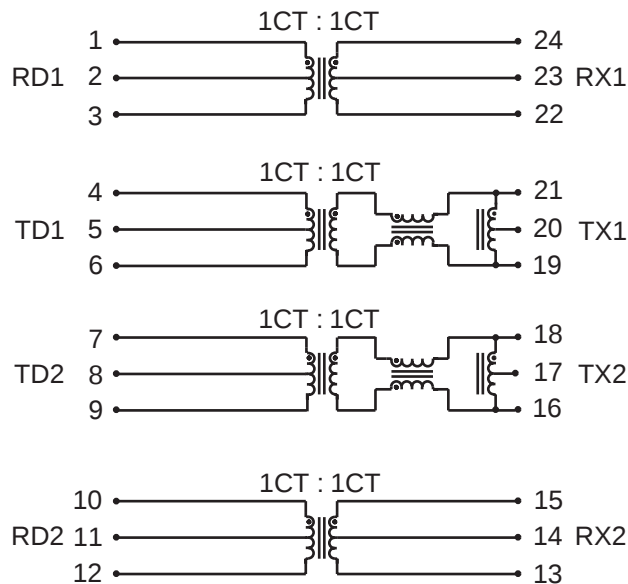
ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±3%		Primary Inductance μH min	Leakage Inductance μH max	Interwinding Capacitance pF max	DCR Ω max			
	TXIN : TXO	RXIN : RXO				TXIN	TXO	RXIN	RXO
S558-5500-02	1CT : 1CT	1CT : 1CT	350	0.25	25	1.0	1.0	1.0	1.0
S558-5500-04	1CT : 1CT	1CT : 1CT	350	0.25	25	1.0	1.0	1.0	1.0
S558-5500-12	1CT : 1CT	1CT : 1CT	350	0.25	25	1.0	1.0	1.0	1.0
S558-5500-16	1CT : 1CT	1CT : 1CT	350	0.25	40	1.0	1.4	1.0	1.4

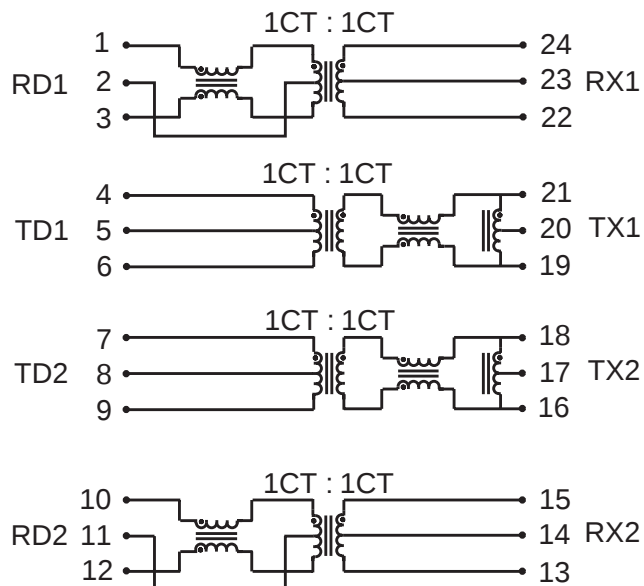
Part Number	Insertion Loss dB min	Return Loss dB min		Crosstalk dB min				Common to Differential Mode Rejection dB min	Common to Common Mode Rejection dB min
	100kHz to 100MHz	2MHz to 30MHz	60MHz to 80MHz	1MHz	30MHz	60MHz	100MHz	100kHz to 100MHz	
S558-5500-02	-1.5	-16	-10	-65	-60	-50	-45	-45	-45
S558-5500-04	-1.5	-16	-10	-65	-60	-50	-45	-45	-45
S558-5500-12	-1.5	-16	-10	-65	-60	-50	-45	-45	-45
S558-5500-16	-1.5	-16	-10	-65	-60	-50	-45	-45	-45

SCHEMATIC

S558-5500-02
S558-5500-04



S558-5500-12



1CT : 1CT

1 2 3 24 23 22

1CT : 1CT

4 5 6 21 20 19

1CT : 1CT

7 8 9 18 17 16

1CT : 1CT

10 11 12 15 14 13

Top View:

- Overall width: 0.600 [15.24]
- Distance from left edge to pin centerline: 0.480 [12.19]
- Pitch between pins: 0.050 [1.27]
- Pin length: 0.016 ±0.002 [0.41 ±0.05]
- Distance from right edge to pin centerline: 0.040 [1.02] typ
- Maximum pin height: 0.542 [13.77] max
- Logo: bel

Side View:

- Maximum package height: 0.250 [6.35] max
- Pin pitch: 0.440 [11.18]

Suggested PCB Pad Layout:

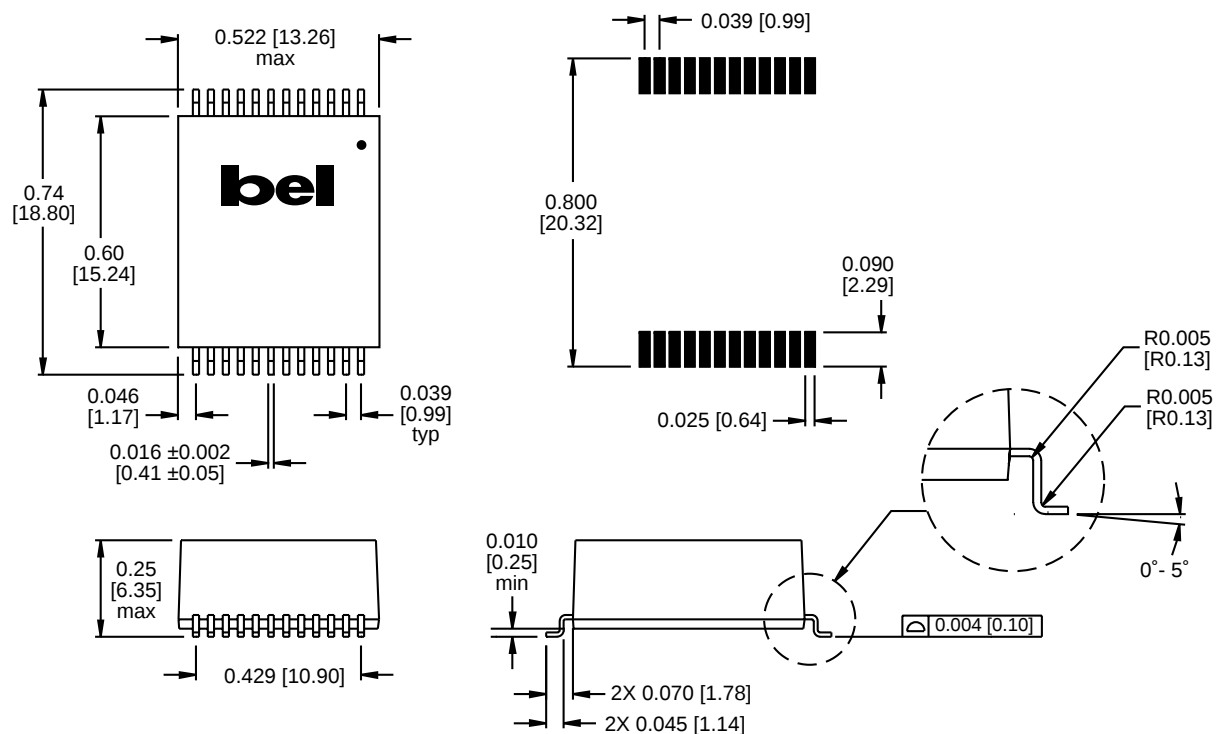
- Pad thickness: 0.040 [1.02]
- Pad width: 0.024 [0.61]
- Pad-to-pad gap: 0.070 [1.78]
- Drill diameter: R0.005 [R0.13]
- Annular ring thickness: 0.004 [0.10]
- Lead angle: 0° - 5°
- Mounting hole diameter: 2 x 0.060
- Mounting hole offset: 2 x 0.035

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MECHANICAL

S558-5500-04
S558-5500-12
S558-5500-16

Suggested PCB Pad Layout



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

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