Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!

Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832
Email & Skype: info@chipsmall.com Web: www.chipsmall.com
Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

HIGH FREQUENCY MAGNETICS

T1/E1 Octal Transformer Modules

TM01122

- Optimized for all Dallas 3.3V devices and Intel LXT380, LXT381 devices
- Eight transformers in one surface mount package
- Two modules:
  S553-6500-B8 with transformers and IC-side surge protection devices
  S553-6500-B9 with transformers only
- Meets ITU-T G.703 return loss from -40° to +85° C
- 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

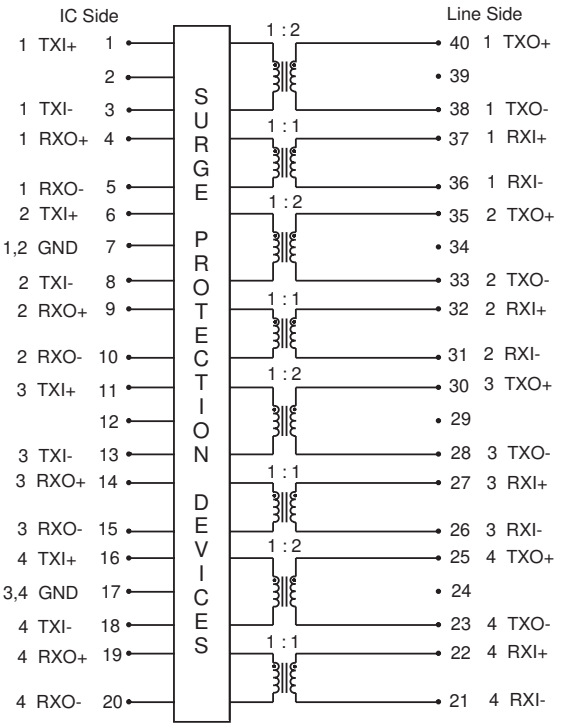
ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±2%		Primary Inductance at 10 kHz		Leakage Inductance at 1 MHz		DCR Ω max				Interwinding Capacitance pF max	Return Loss at 102 kHz 120Ω Application[1]			
			mH min		µH max							25° C dB typ		-40 to +85° C dB min	
	TXI : TXO	RXI : RXO	TXI	RXI	TXI	RXO	TXI	TXO	RXI	RXO		TX	RX	TX	RX
S553-6500-B8	1 : 2	1 : 1	1.5	1.8	0.3	0.5	0.6	1.2	0.6	0.6	35	19	30	18	19
S553-6500-B9	1 : 2	1 : 1	1.5	1.8	0.3	0.5	0.6	1.2	0.6	0.6	35	19	30	18	19

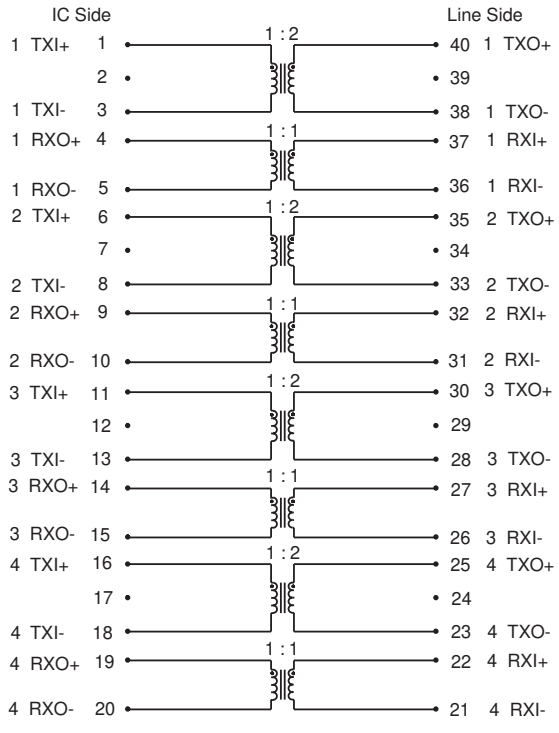
1. Terminated in 23.2 Ω for TX and 120 Ω for RX

SCHEMATIC

S553-6500-B8



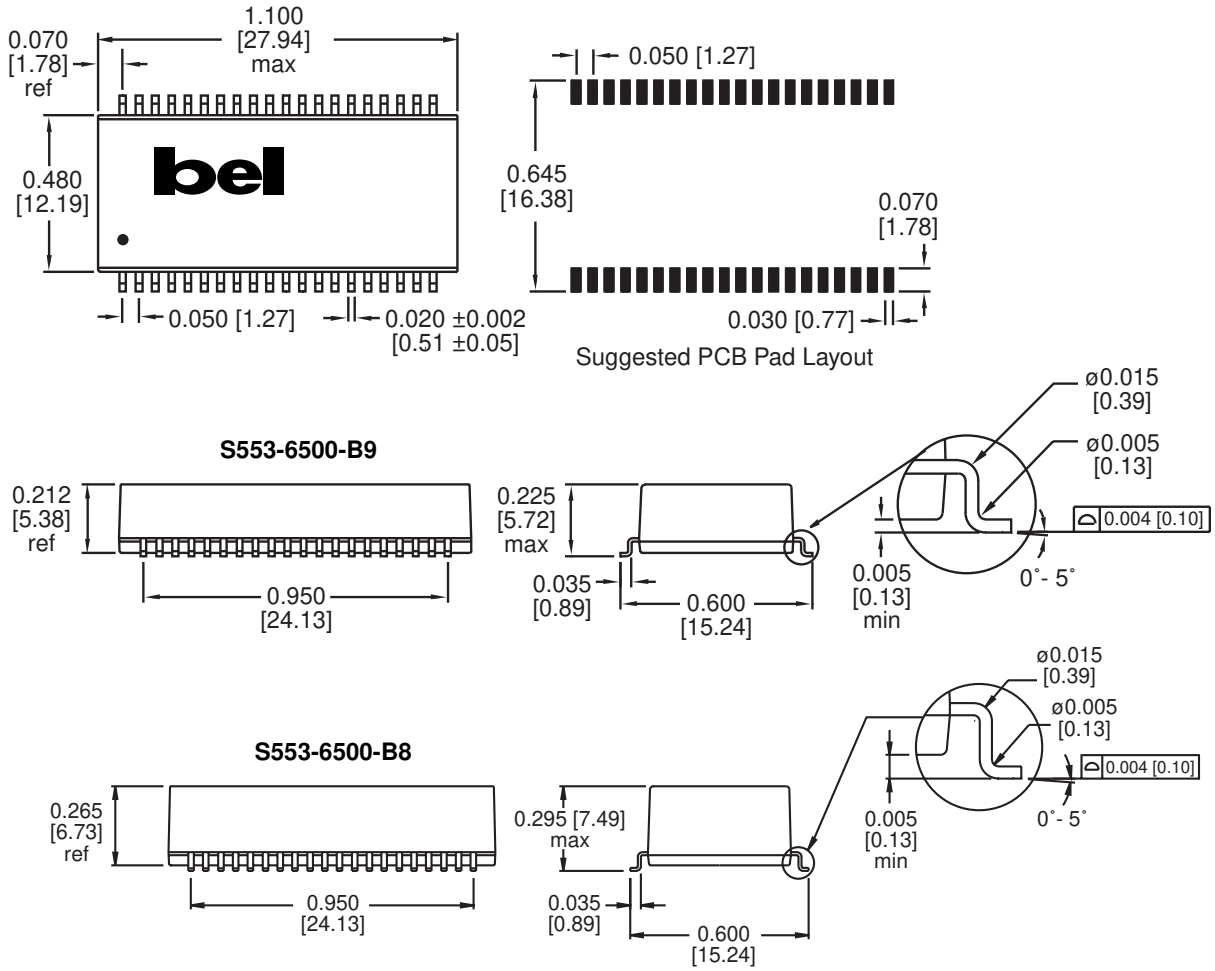
S553-6500-B9



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

MECHANICAL

S553-6500-B8 and S553-6500-B9



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

S553-6500-B8 Surge Protection Devices
TVS Diode Array: Protek PSRDA3.3-4
Number of arrays: 4

Note: Surge protection provided by the Bel module is equivalent to that advertised in the Protek PRDA3.3-4 product specification.

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

CORPORATE

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