

HIGH FREQUENCY MAGNETICS

DS3/E3/STS-1 Dual Transformer

TM02132

- Optimized for Maxim DS3150 and TDK 78P7200 devices which operate at E3, DS3 and STS-1 rates: 34.368 Mb/s, 44.736 Mb/s, 51.84 Mb/s
- Transmit transformer and receive transformer in one surface mount package
- Meet ITU-T G.703 return loss from -40° to +85° C from 860 kHz to 51.55 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

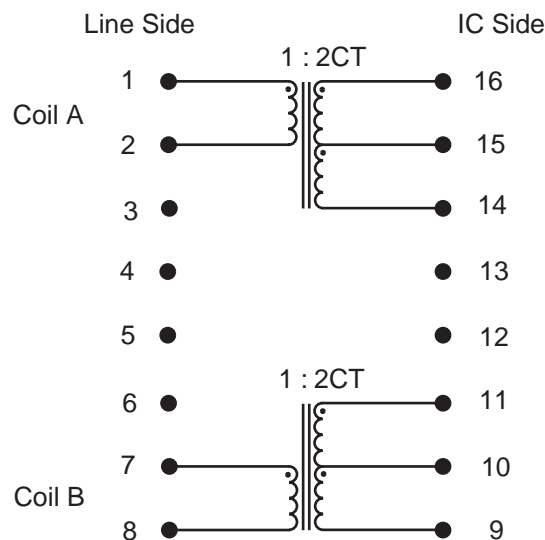
ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±2%		Line-side Inductance at 100 kHz				Leakage Inductance at 1 MHz		Capacitance C w/w	Return Loss at 1.72 MHz 75Ω Application ¹			
	Line : IC		25° C μH min		-40° C μH min		μH max		pF max	25° C dB typ		-40 to +85° C dB min	
	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B	Coil A	Coil B	Coil A & B	Coil A	Coil B	Coil A	Coil B
S554-6500-19	1 : 2CT	1 : 2CT	80	80	40	40	0.09	0.09	10	25	25	18	18

1. IC side terminated in 330 Ω

SCHEMATIC

S554-6500-19

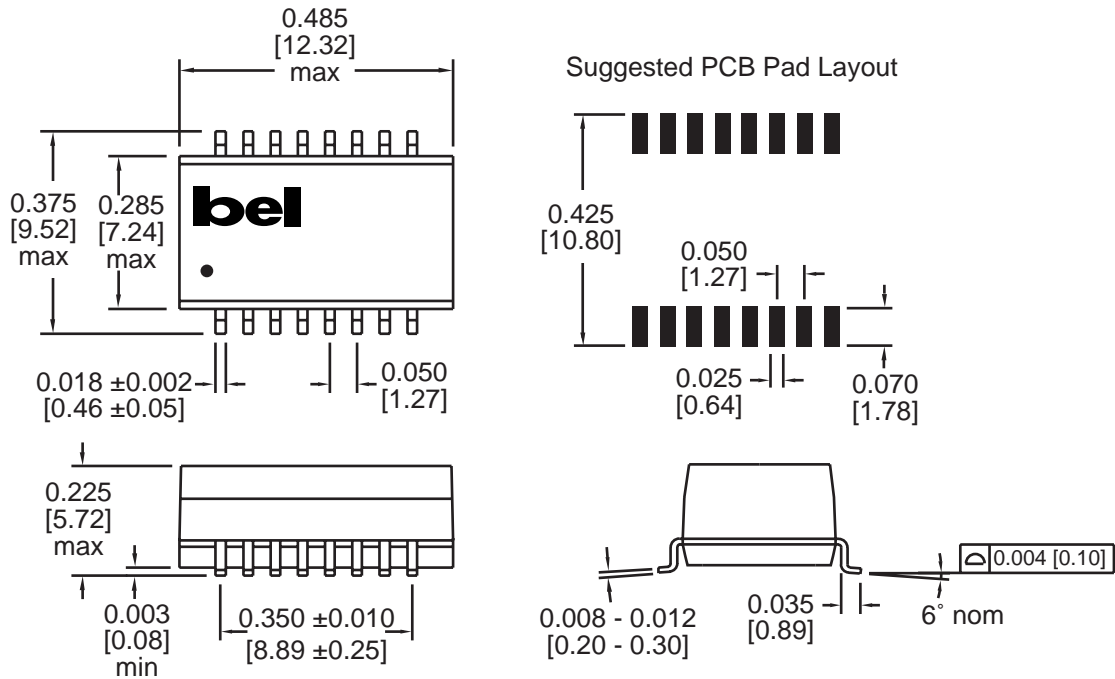


©2002 Bel Fuse Inc. Specifications subject to change without notice. 04.02

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

MECHANICAL

S554-6500-19



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

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

FAR EAST

Bel Fuse Ltd.
8F / 8 Luk Hop Street
San Po Kong
Kowloon, Hong Kong
Tel 852-2328-5515
Fax 852-2352-3706
www.belfuse.com

EUROPE

Bel Fuse Europe Ltd.
Preston Technology Management Centre
Marsh Lane, Suite G7, Preston
Lancashire, PR1 8UD, U.K.
Tel 44-1772-556601
Fax 44-1772-888366
www.belfuse.com