

HIGH FREQUENCY MAGNETICS

T1/E1 Dual Transformers

TM01117

- Transmit transformer and receive transformer in one surface mount package
- S553-6500-E5, S553-6500-E6 and S553-6500-E7 are industrial temperature versions of S553-6500-39, S553-6500-76 and S553-6500-A4 respectively
- Meets ITU-T G.703 return loss from -40° to +85° C
- 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

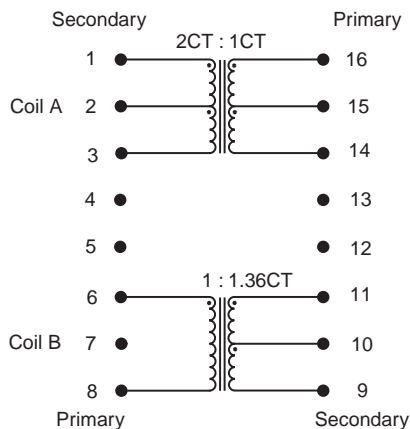
ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±2%		Primary Inductance at 10 kHz		Leakage Inductance at 1 MHz		DCR Ω max				Capacitance pF max	Return Loss at 102 kHz 120Ω Application			
	Pri : Sec		mH min		μH max		Primary		Secondary			Pri to Sec	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	Coil B	Coil A		Coil B	Coil A	Coil B
S553-6500-E5	1CT : 2CT	1 : 1.36CT	1.8	1.6	0.5	0.5	0.75	0.6	1.5	0.7	35	30 ¹	21 ²	18 ¹	18 ²
S553-6500-E6	1CT : 1CT	1CT : 2CT	1.8	1.8	0.5	0.5	0.6	0.75	0.6	1.5	35	32 ³	30 ¹	19 ³	18 ¹
S553-6500-E7	1CT : 1CT	1CT : 1.36CT	1.8	1.3	0.5	0.5	0.6	0.5	0.6	0.7	35	32 ³	20 ²	19 ³	18 ²

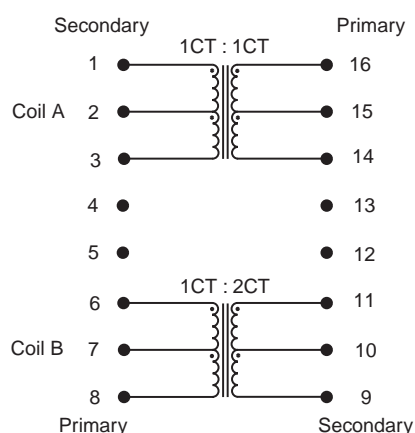
1. Secondary terminated in 480 Ω
2. Primary terminated in 54 Ω
3. Primary or secondary terminated in 120 Ω

SCHEMATIC

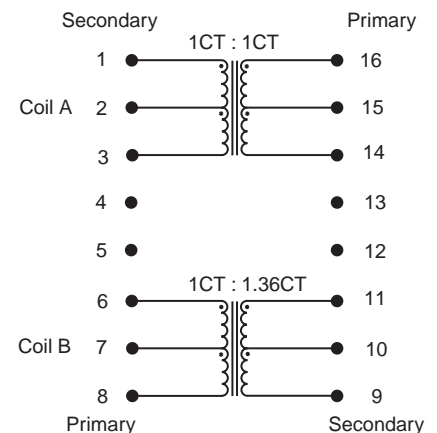
S553-6500-E5



S553-6500-E6



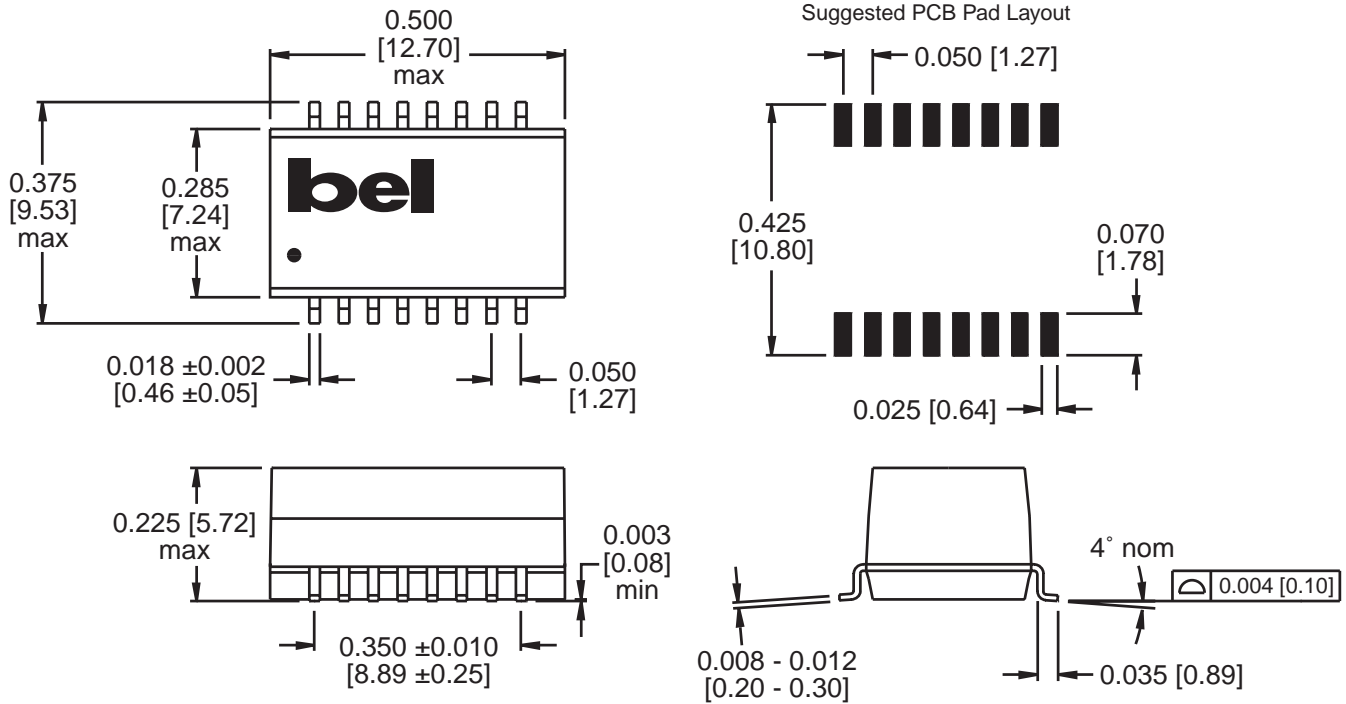
S553-6500-E7



TM01117

MECHANICAL

S553-6500-E5
S553-6500-E6
S553-6500-E7



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

©2001 Bel Fuse Inc. Specifications subject to change without notice. 11.01

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