

# 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

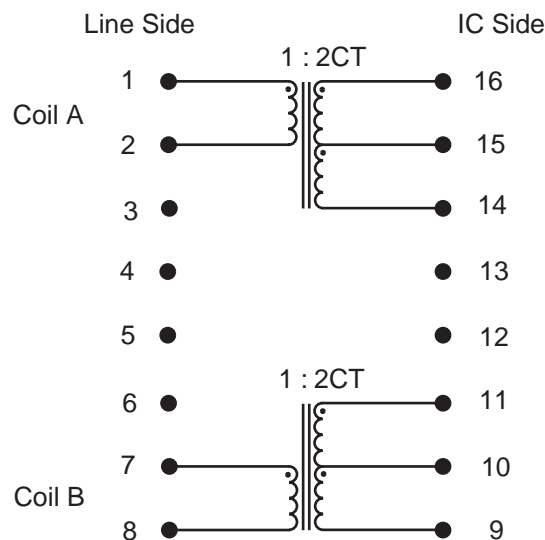
### ELECTRICAL SPECIFICATIONS at 25° C

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 <sup>1</sup>			
	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

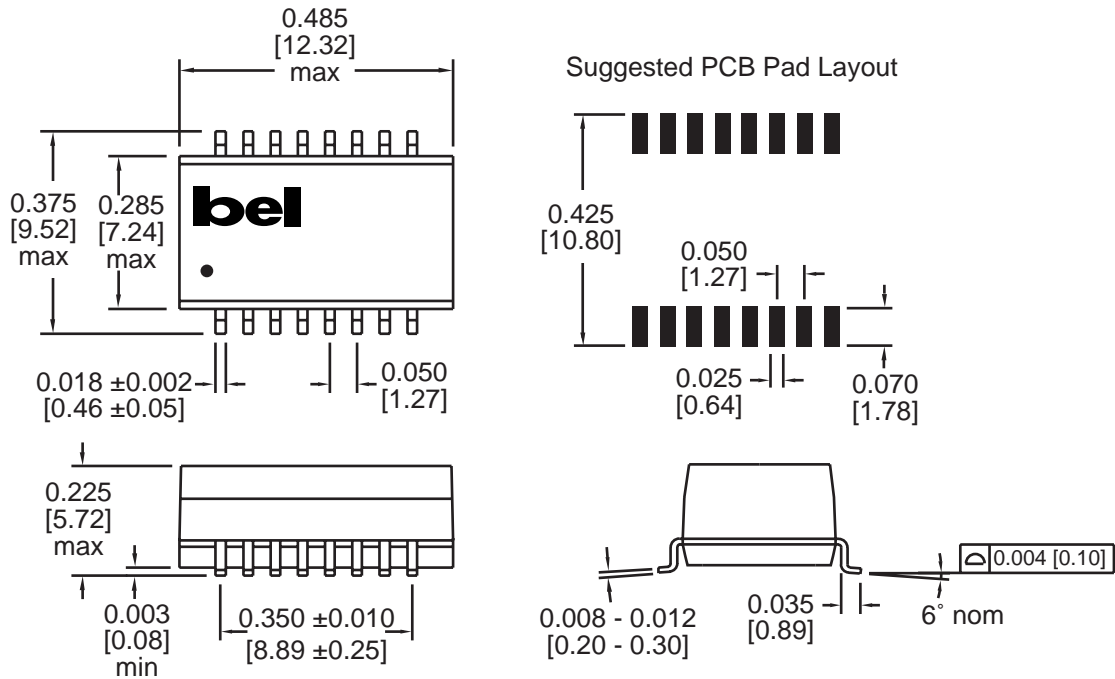
### SCHEMATIC

S554-6500-19



### MECHANICAL

#### S554-6500-19



Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.005$  [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

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