

## VDSL Magnetics

Broadcom



TM01357

- Designed to comply with the requirements of GR1089, UL1950, EN60950, BABT and CSA950 to provide a supplementary insulation barrier with a working voltage of 250V
- UL File Number E150991
- Minimum interwinding breakdown voltage of 1500 Vrms
- Operating and storage 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

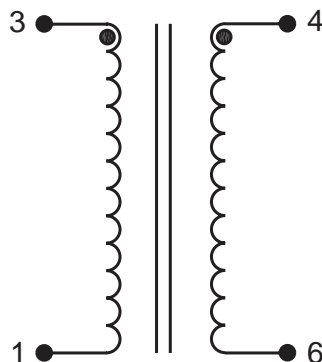
### ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±2%	Inductance <sup>1</sup> µH min	Leakage Inductance <sup>2</sup> µH max	DCR Ω max		Insertion Loss dB max		Return Loss dB min	
	Chip : Line	Line Side	Line Side	(6 - 4)	(1 - 3)	200 kHz - 400 kHz	400 kHz - 30 MHz	300 kHz - 20 MHz	20 MHz - 30 MHz
S560-6600-Y7	1 : 1	400	3	0.4	0.6	0.75	0.5	20	18

1. Inductance measured at 100 kHz, 0.1 Vac
2. Leakage inductance measured at 1 MHz, 20mV

### SCHEMATIC

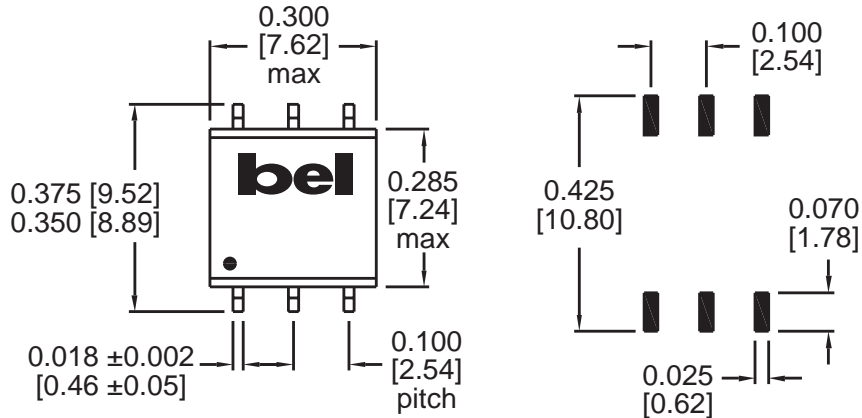
S560-6600-Y7



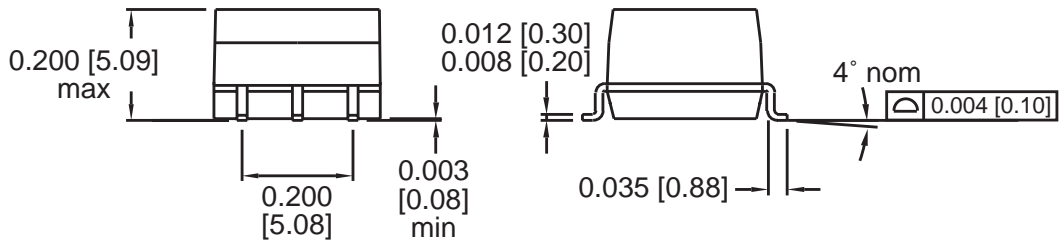
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### MECHANICAL

S560-6600-Y7



Suggested PCB Pad Layout



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



→ User Feed Direction

Orientation of Component Inside Pocket

### Tape and Reel Packaging

16 mm wide by 12 mm pitch; 13 inch OD, 4 inch ID  
500 components per reel, maximum  
Meets ANSI/EIA 481-2 Carrier Tape Standards

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