

ADSL Magnetics

- Used in conjunction with the S560-6600-EB transformer in ADI's ADSL over POTS Eagle design
- Designed to comply with the requirements of UL1950 and EN60950 to provide a supplementary insulation barrier with a working voltage of 250V
- UL File Number E169987
BABT certificate NC / 011557
- 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 ¹ μH ±7% | Leakage Inductance μH max | DCR Ω ±10% | | Longitudinal Balance ² dB min | Insertion Loss ² dB max | Frequency Response ² dB max | Harmonic Distortion ² dB max |
|--------------|--------------------|-----------------------------------|------------------------------|------------------|-----------|---|---------------------------------------|---|--|
| | Chip : Line | Line Side | Line Side | Chip Side | Line Side | 10 kHz - 1.1 MHz | 300 kHz | 100 kHz - 1.1 MHz | 4 Vac 40 kHz |
| S560-6600-EP | 1.41 : 1 | 400 | 10 | 2.2 | 2.0 | 46 | 0.5 | ±0.5 | -80 |

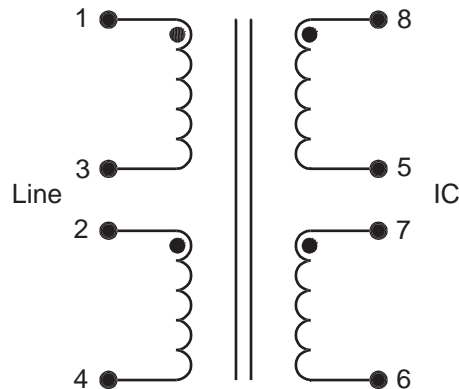
All measurements are made with pins 2 and 3 connected and pins 5 and 7 connected

1. Inductance measured at 10 kHz, 0.1 Vac

2. Measured with line impedance of 100 Ω

SCHEMATIC

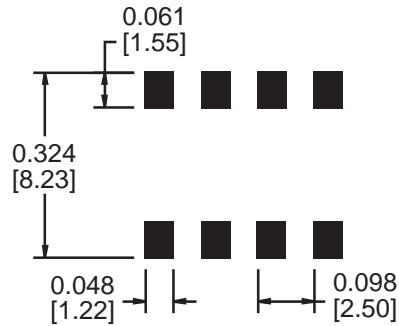
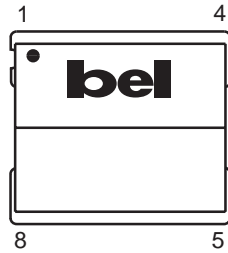
S560-6600-EP



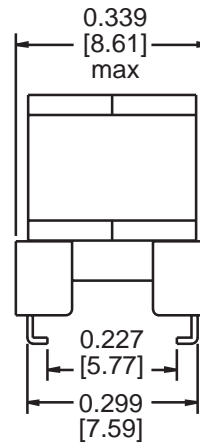
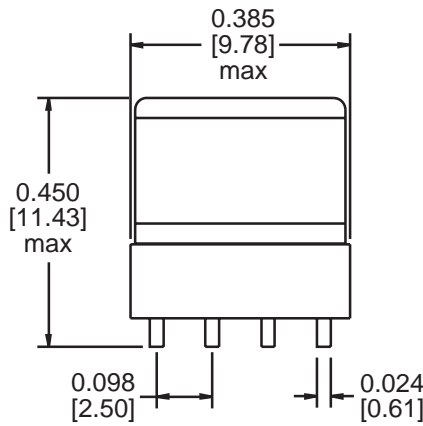
TM02303

MECHANICAL

S560-6600-EP

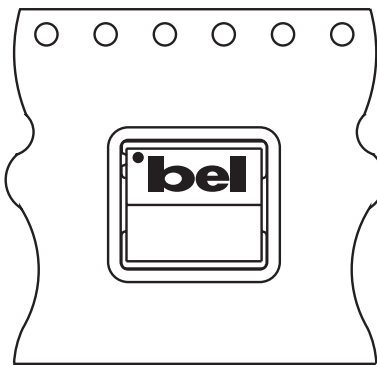


Suggested PCB Pad Layout



Dimensions are in inches [millimeters].

Standard dimension tolerance is ± 0.005 [0.13] unless otherwise noted.



➔ User Feed Direction

Orientation of Component Inside Pocket

Tape and Reel Packaging

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

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