

**HDSL Magnetics**  
GlobeSpan MD5L/HDSL2



TM00313

- Designed to meet UL1950 and IEC 950 safety requirements
- 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
- Minimum interwinding breakdown voltage 1500 Vrms

**ELECTRICAL SPECIFICATIONS AT 25° C**

Part Number	Turns Ratio ±2%	DCR Ω max		Return Loss <sup>1</sup> db max	Insertion Loss <sup>2</sup> db max	Longitudinal Balance <sup>3</sup> db min	Harmonic Distortion <sup>4</sup> db min	Inductance <sup>5</sup> mH ±10%
	(1-3) : (2-4) : (7-5) : (8-6)	(1-4)	(8-5)					(1-4)
S560-6600-24	1 : 1 : 2 : 2	6	7	10	4	60	85	3.125

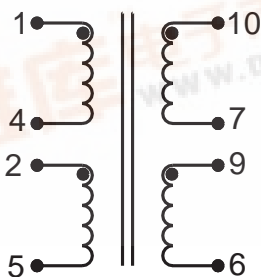
1. Measured at 100 kHz to 1 MHz
2. Measured at 1 kHz to 2 MHz
3. Measured at 20 kHz to 1 MHz
4. Measured at 3.5 Vrms, 10 kHz, Rs = 135 Ω, RL = 33.8 Ω
5. Measured at 10 kHz, connect 2 to 3

Part Number	Turns Ratio ±2%	DCR Ω max				Return Loss <sup>1</sup> db max	Insertion Loss db max		Longitudinal Balance <sup>2</sup> db min	Harmonic Distortion <sup>3</sup> db min
	(1-4) : (2-5) : (10-7) : (9-6)	(1-4)	(2-5)	(9-6)	(10-7)		1 kHz - 2 MHz	4 kHz - 1 MHz		
S560-6600-37	1 : 1 : 2 : 2	3	3	4	4	10	4	1.1	60	85

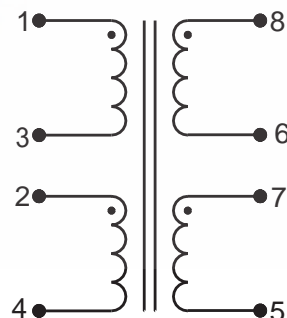
1. measured at 100 kHz to 200 kHz
2. measured at 20 kHz to 1 MHz
3. measured at 10 kHz

**SCHEMATIC**

S560-6600-37



S560-6600-24





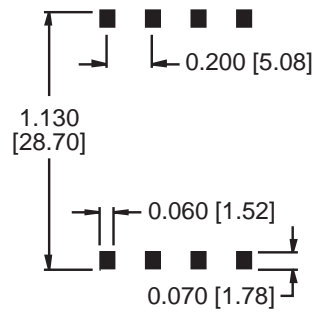
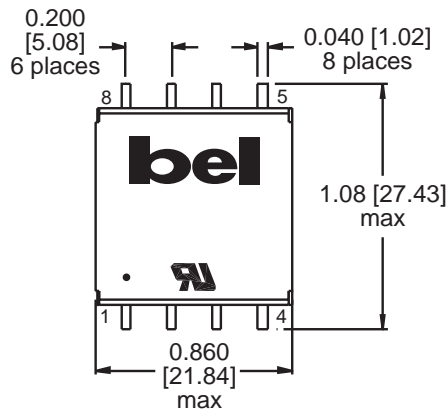
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# HDSL Magnetics

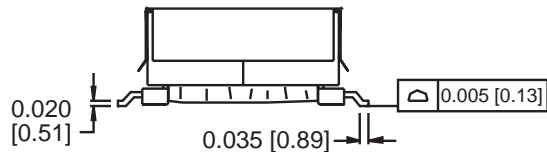
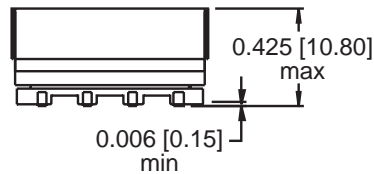
GlobeSpan MDSL/HDSL2

## MECHANICAL

S560-6600-24

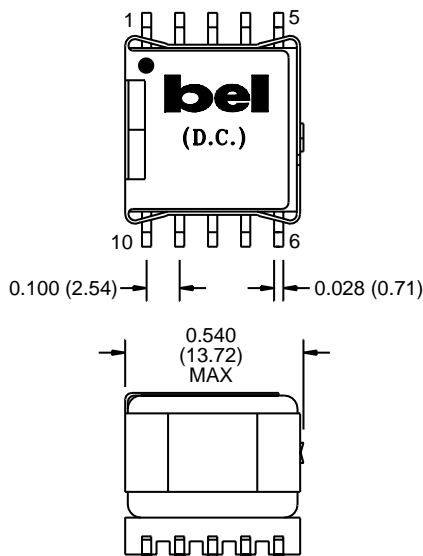


Suggested PCB Pad Layout

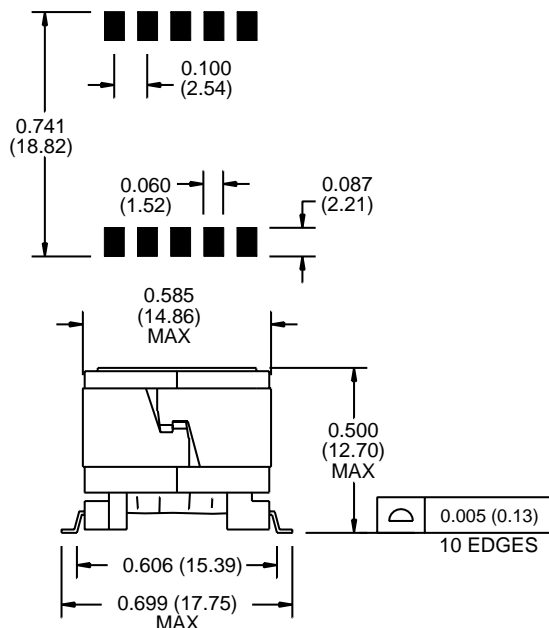


Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.005$  [0.13] unless otherwise noted.

S560-6600-37



### SUGGESTED PCB PAD LAYOUT



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