

ADSL Magnetics

For Texas Instruments TNETD4000C

TM00327

- Designed to meet IEC 950 safety requirements for supplementary insulation at 250V
- Minimum interwinding breakdown voltage of 1500 Vrms
- Operating temperature range: -40° C 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	Application	Package	Turns Ratio ±2%	Inductance	Leakage Inductance μH max	DCR Ω Max		Longitudinal Balance dB min	Insertion Loss dB max	Frequency Response dB	Harmonic Distortion dB max
			Chip : Line	Line Side	Line Side	Chip Side	Line Side	1 MHz	300 kHz	30 kHz - 1.1 MHz	
S560-6600-F7	ADSL over POTS - CO	SMD	1 : 2	1.5 mH ±5% ¹	8	0.6	1.25	55	0.5	± 0.5	-90 ³
S560-6600-F8	ADSL over ISDN - CO	SMD	1 : 2	75 μH ±5% ²	3	0.28	0.28	55	0.5	± 0.5	-90 ³
S560-6600-F9	ADSL over POTS - CO Active Termination	SMD	1 : 1	375 ±5% ¹	6	0.75	1.80	55	0.5	± 0.5	-70 ⁴

1. measured at 10 kHz, 0.1 Vac

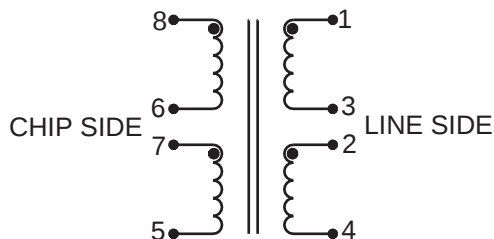
2. measured at 100 kHz, 0.1 Vac

3. measured with 100 Ω source at 100 kHz, 15 Vp-p

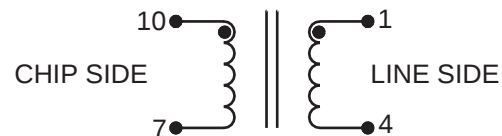
4. measured with 100 Ω source at 40 kHz, 15 Vp-p

SCHEMATIC

S560-6600-F9

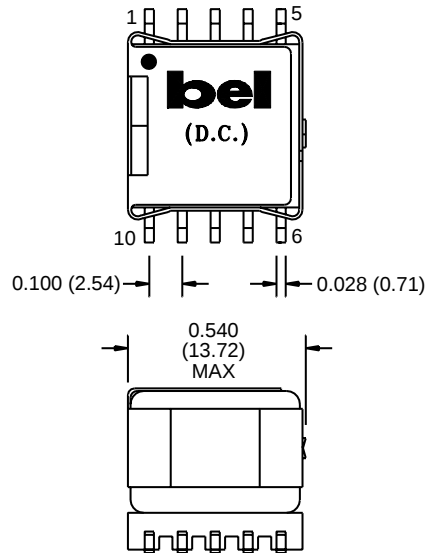


S560-6600-F7
S560-6600-F8

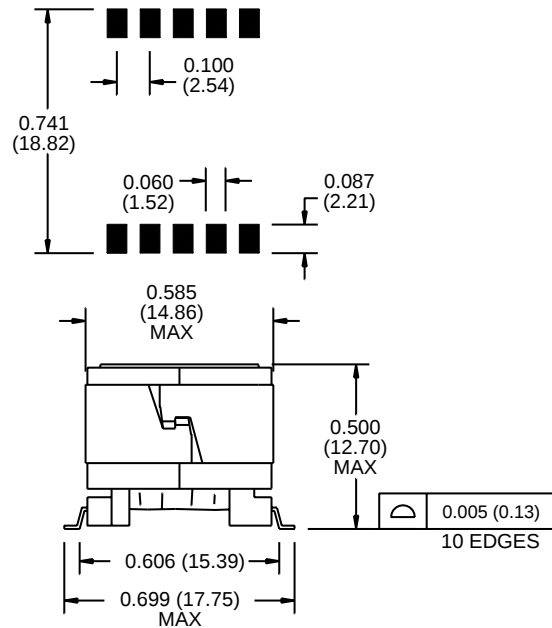


MECHANICAL

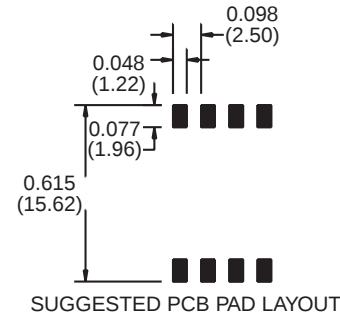
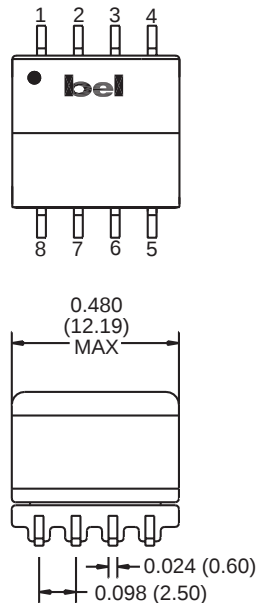
S560-6600-F7
S560-6600-F8



SUGGESTED PCB PAD LAYOUT



S560-6600-F9



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CORPORATE

Bel Fuse Inc.
198 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