

HIGH FREQUENCY MAGNETICS

Wideband Surface Mount Transformers

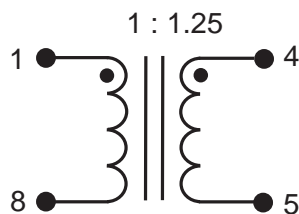
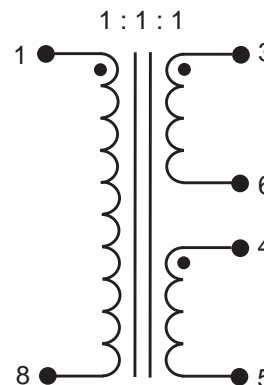
- Optimized for line interface applications
- Minimum 1-dB bandwidth:
S553-6500-B3 (100Ω : 156Ω): 0.1 - 10 MHz
S553-6500-B4 (25Ω : 100Ω): 0.1 - 10 MHz
- Minimum voltage-time (ET) product for Winding (1-8) of each transformer: 15 V-μs
- Minimum interwinding breakdown voltage 1500 VDC
- Operating Temperature 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
- Solder: High Temperature, Lead-Free
Sn 95% / Ag 3.8% / Cu 1.2%

ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±2%	Inductance ¹ μH min	Leakage Inductance ² μH max	DCR Ω max			Interwinding Capacitance ³ pF max
		(1-8)	(1-8)	(1-8)	(3-6)	(4-5)	
S553-6500-B3	(1-8) : (4-5) 1 : 1.25	715	0.4	0.5	-	0.6	25
S553-6500-B4	(1-8) : (3-6) : (4-5) 1 : 1 : 1	715	0.3	0.5	0.5	0.5	30

- Measured at 100 kHz.
- Measured at 100 kHz with all other windings shorted.
- Measured at 100 kHz. For S553-650 B4, 6 and 4 are connected together.

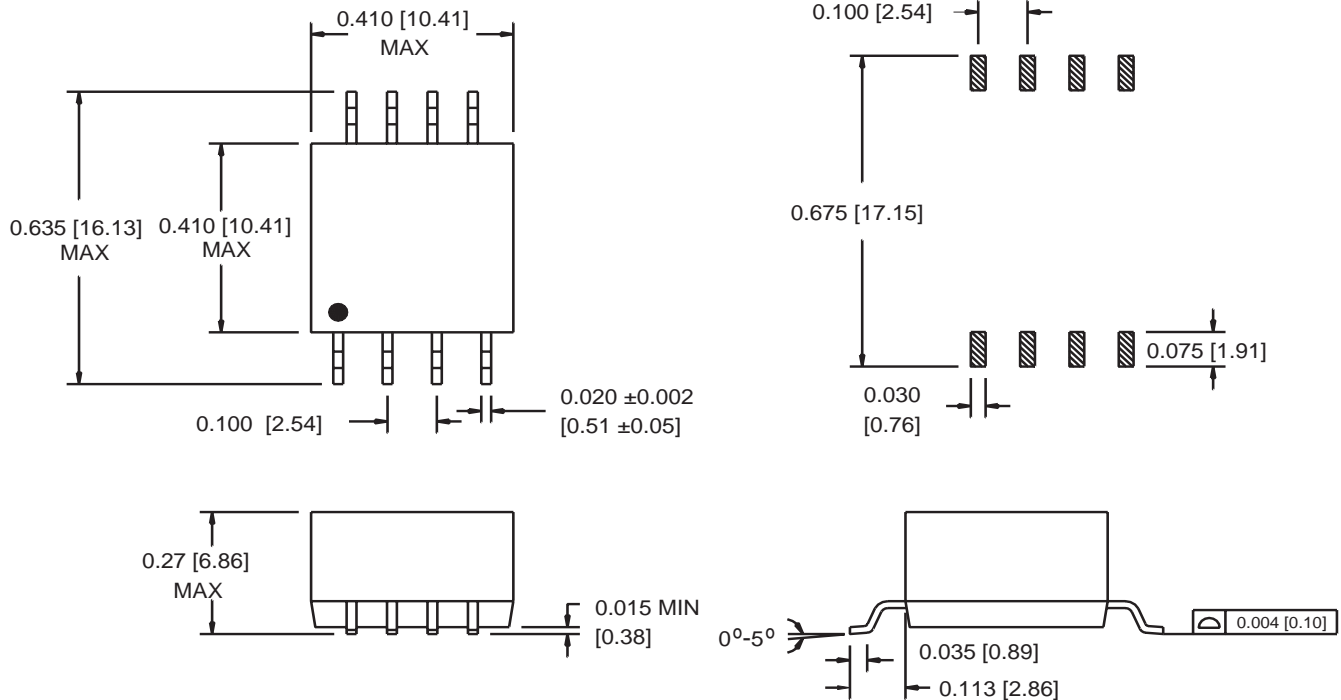
SCHEMATIC

S553-6500-B3

S553-6500-B4


MECHANICAL

S553-6500-B3
S553-6500-B4

SUGGESTED PCB PAD LAYOUT



Dimensions are in inches (millimeters).
Standard dimension tolerance is ±0.005(0.13) unless otherwise noted.

Tape and Reel Packaging

32 mm wide by 24mm pitch; 13 inch OD, 4 inch ID
350 transformers per reel, maximum
Meets ANSI/EIA 481-2 Carrier Tape Standards-JEDEC SO Package

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