

# HIGH FREQUENCY MAGNETICS

## T1/CEPT Dual Line Interface Transformers

TM00131

- Pick and place compatible
- Small form factor to minimize board space
- Low height profile
- Minimum interwinding breakdown voltage of 1500 Vrms
- Reference data sheet TM9905 for additional dual surface mount transformers

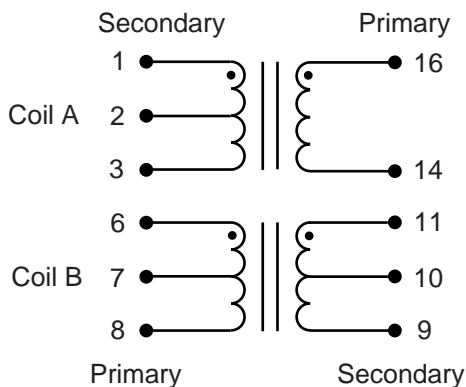
### ELECTRICAL SPECIFICATIONS at 25° C

Part Number	Turns Ratio ±5%		Primary Inductance mH min	Leakage Inductance μH max		Interwinding Capacitance pF max	DCR Ω max			
	Coil A	Coil B	Coil A & B	Coil A	Coil B	Coil A & B	Pri		Sec	
							Coil A	Coil B	Coil A	Coil B
S553-3855-02	1 : 1.15 CT	1 CT : 2 CT	1.2	0.6	0.8	30	0.70	0.70	0.70	1.00
S553-6500-36	1 CT : 1.4 CT	1 CT : 1.4 CT	1.2	0.6	0.6	30	0.35	0.35	0.45	0.45
S553-6500-39	1 CT : 2 CT	1 : 1.36 CT	1.2	0.6	0.6	30	0.35	0.70	0.70	0.40
S553-6500-41	1 CT : 1.15 CT	1 CT : 1.15 CT*	1.2	0.6	0.6	30	0.35	0.35	0.45	0.45
S553-6500-42	1 : 1.414 / 1 : 1.75	1 : 1.414	2.0	0.8	0.8	50	1.0	1.0	1.2	1.2
S553-6500-45	1CT : 2.42CT	1CT : 2.42CT	1.2	0.6	0.6	40	0.70	0.70	1.0	1.0

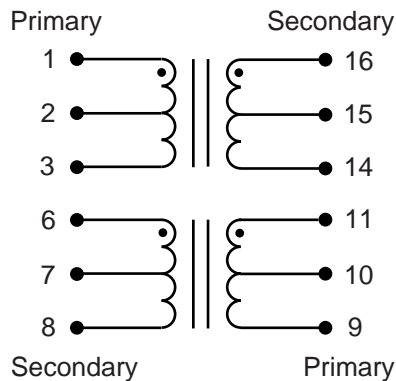
\* (-41) primary pins for Coil B are pins (6 - 8)

### SCHEMATICS

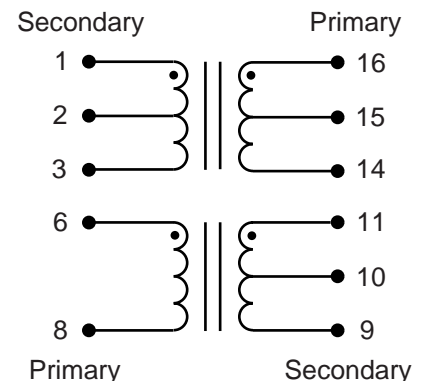
S553-3855-02



S553-6500-36  
S553-6500-41



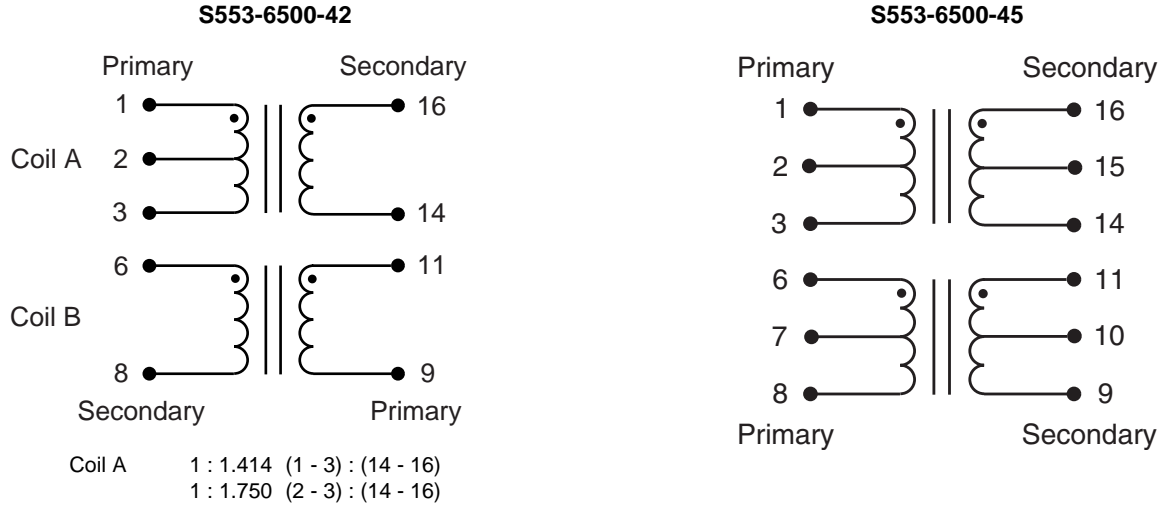
S553-6500-39



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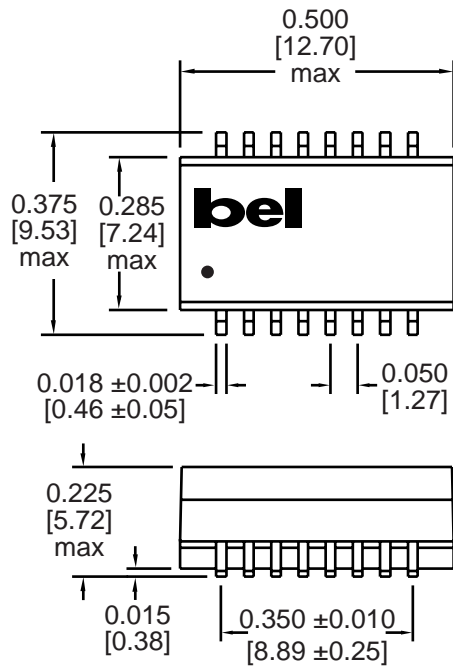
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#### SCHEMATICS

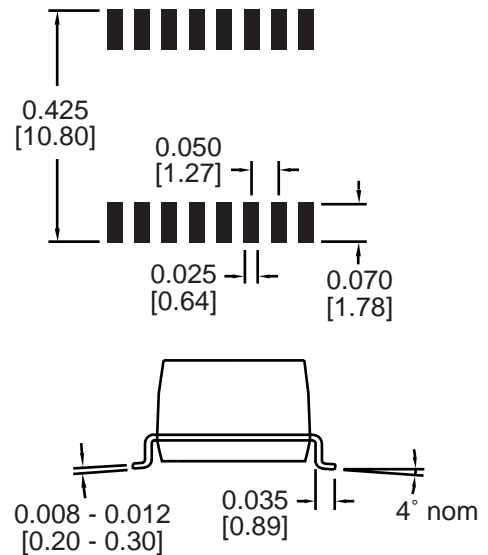


#### MECHANICAL

- S553-3855-02
- S553-6500-36
- S553-6500-39
- S553-6500-41
- S553-6500-42
- S553-6500-45



#### Suggested PCB Pad Layout



Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.010$  [0.25] unless otherwise noted.

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