

10BASE-T LAN MAGNETICS

Dual Transformer Modules

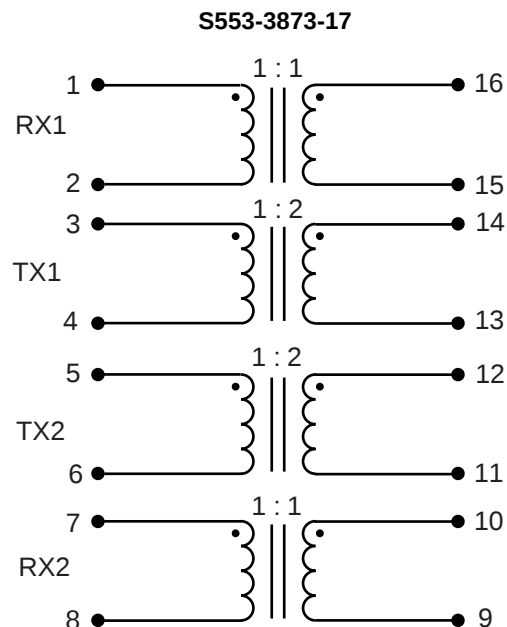
LM00503

- Dual designs for two-port configurations maximize space and cost efficiencies
- S556-5999-30 includes inductors for use with additional differential filtering
- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Operating temperature 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Turns Ratio ±2%		Insertion Loss dB max	Return Loss dB min	Common to Common Mode Rejection dB min		Crosstalk dB min
	TX	RX	1MHz to 10MHz	5MHz to 10MHz	10MHz to 30MHz	30MHz to 100MHz	1MHz to 10MHz
S553-3873-17	1 : 2	1 : 1	-0.8	-20	---	---	-40
S553-5841-14	1CT : 1.41	1 : 1	-1.0	-15	-40	-30	-35
S556-5841-09	1CT : 1	1CT : 1	-1.0	-20	-40	-30	-40
S556-5999-30	1 : 2	1 : 1	-0.5	-20	---	---	-40

SCHEMATICS



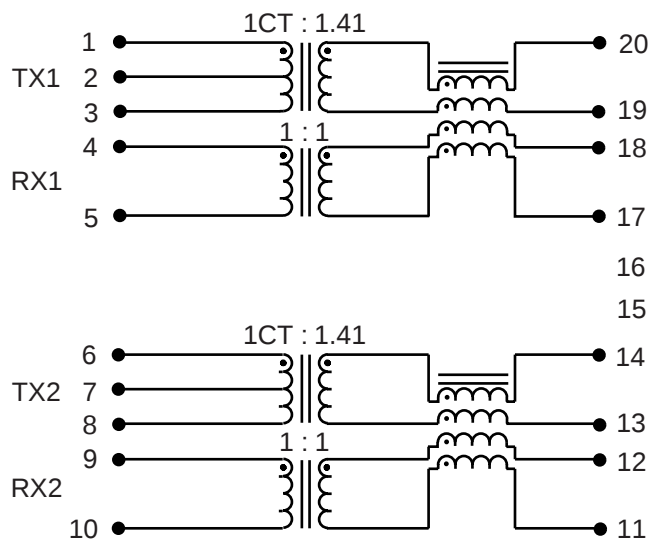
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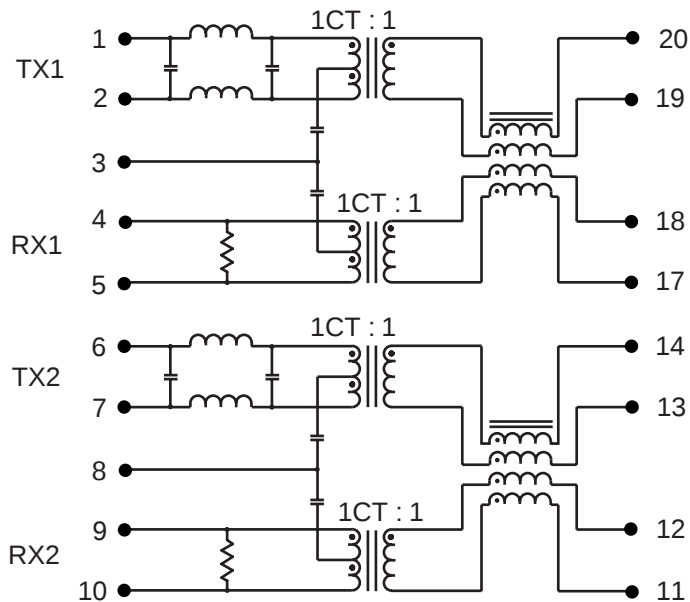
Dual Transformer Modules

SCHEMATICS

S553-5841-14



S556-5841-09



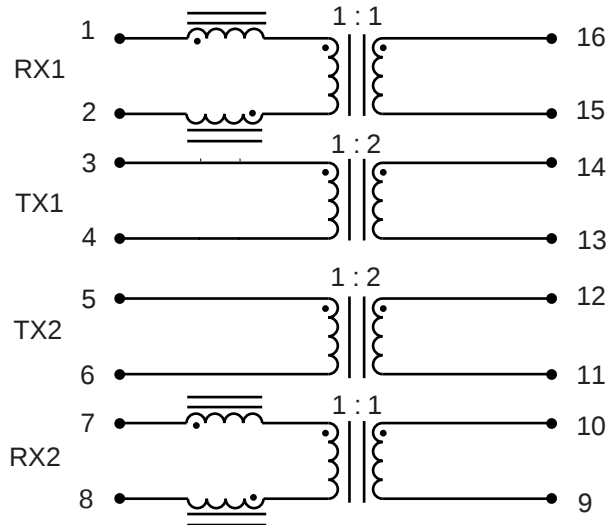
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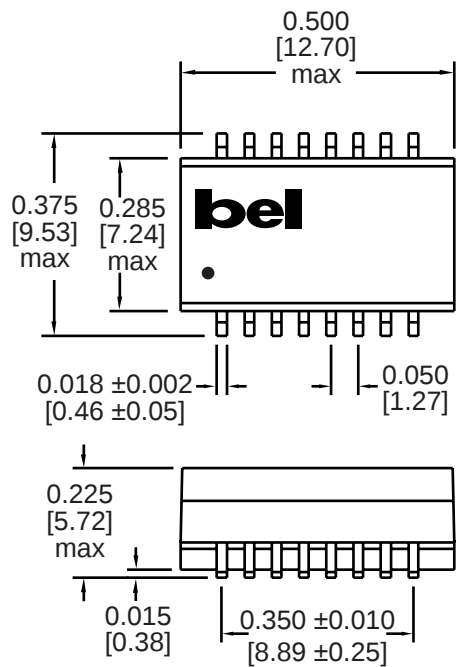
SCHEMATICS

S556-5999-30

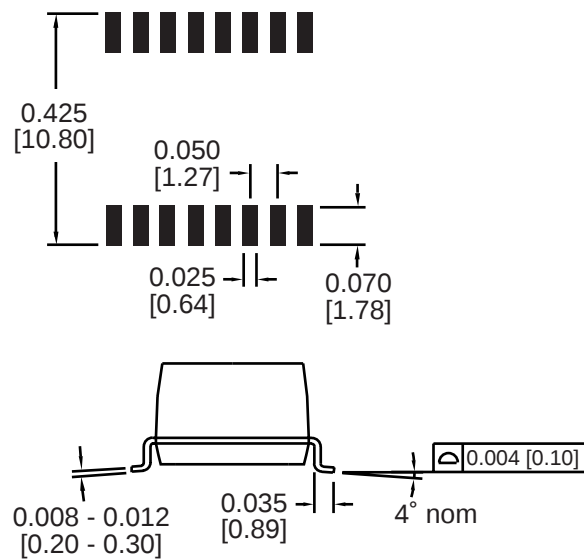


MECHANICALS

S553-3873-17
S556-5999-30



Suggested PCB Pad Layout



Dimensions are in inches [millimeters].

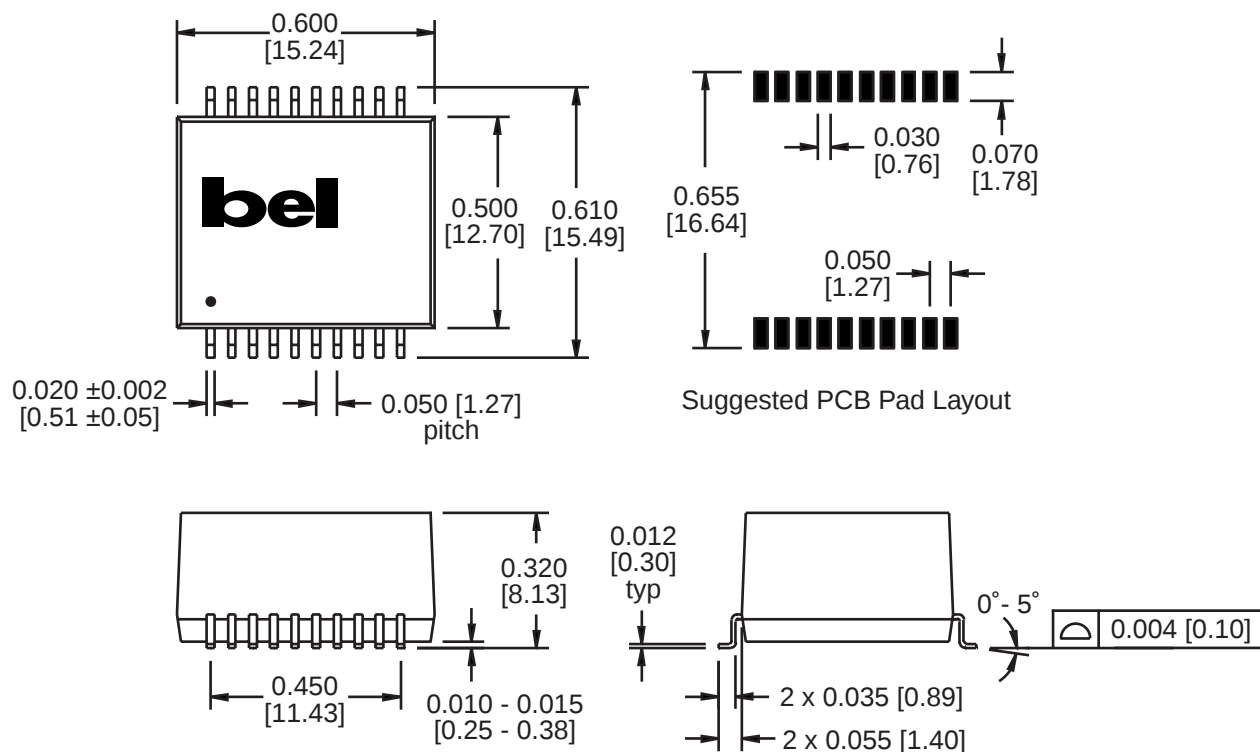
Standard dimension tolerance is ± 0.005 [0.13] unless otherwise noted.

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MECHANICALS

S553-5841-14
S556-5841-09



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

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