

10BASE-T LAN MAGNETICS

Quad Transformer Modules

LM00500

- Transformer turns ratio RX 1 : 1 and TX 1CT : 1CT
- Filterless quad, four-port designs with common footprint and pinouts
- Optimized for use with stackable RJ-45 connectors
- Designs utilize standard 40 pin SMD packaging
- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Quad design offers best space, performance and cost efficiency
- Operating temperature 0° to 70° C
- Minimum interwinding breakdown voltage of 1500 Vrms

ELECTRICAL SPECIFICATIONS AT 25° C

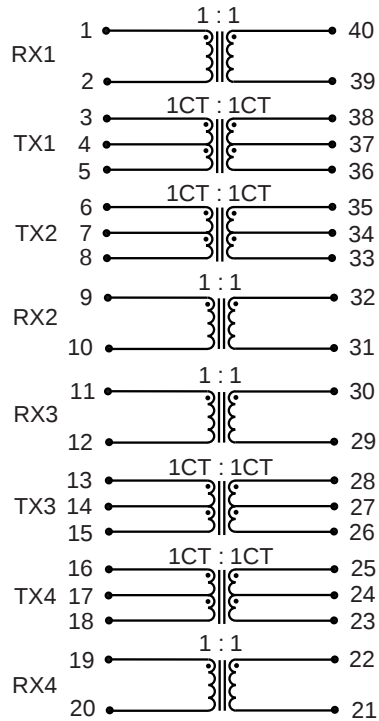
Part Number	Insertion Loss dB max	Return Loss dB min	Common to Common Mode Rejection dB min				Crosstalk dB min	
	1MHz to 10MHz	5MHz to 10MHz	5MHz to 10MHz	50MHz	100MHz	200MHz	1MHz to 10MHz	5MHz to 10MHz
Transformers Only								
S553-5999-18	-1.0	-20	-50	-35	-25	-20	---	-50
S553-5999-26	-1.0	-18	---	---	---	---	-40	---
S553-5999-53	-1.0	-18	-40	---	-30	---	-40	---
Transformers and Common Mode Chokes								
S553-5999-24	-1.0	-20	-50	-35	-25	-20	---	-50
S553-5999-32	-1.0	-18	-40	---	-30	---	-40	---
S553-5999-39	-1.0	-20	-50	-35	-25	-20	---	-50
S553-5999-76	-1.0	-18	-40	---	-30	---	-40	---

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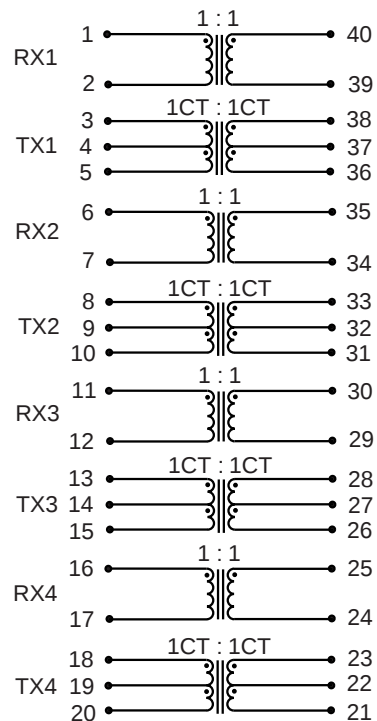
Quad Transformer Modules

SCHEMATICS

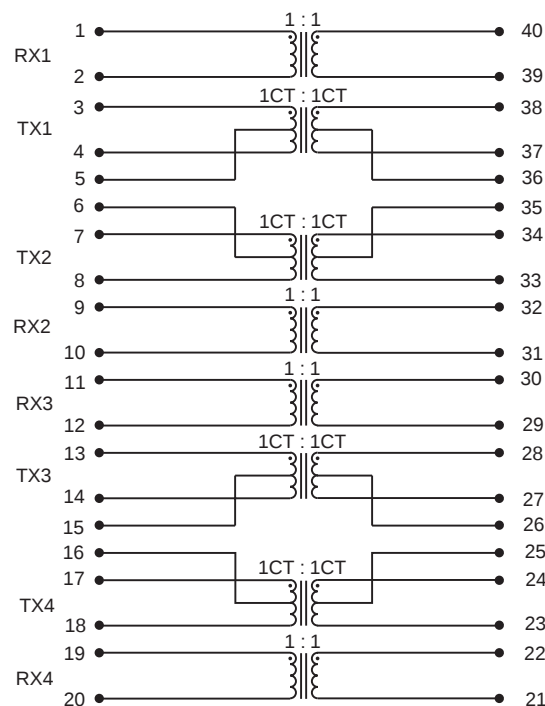
S553-5999-18



S553-5999-26



S553-5999-53



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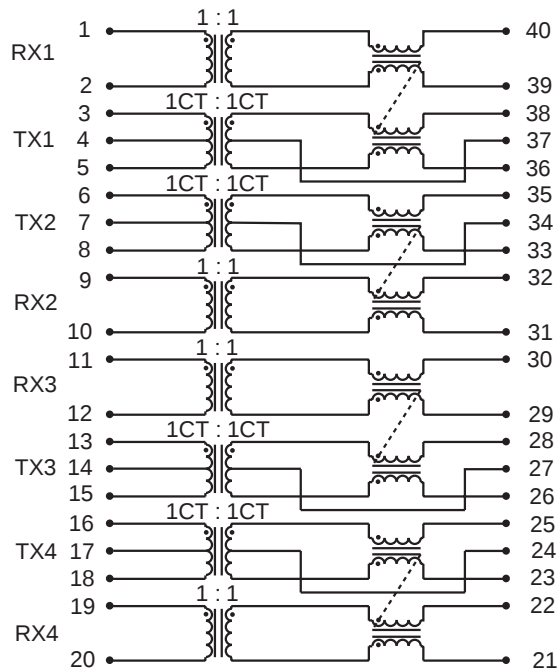
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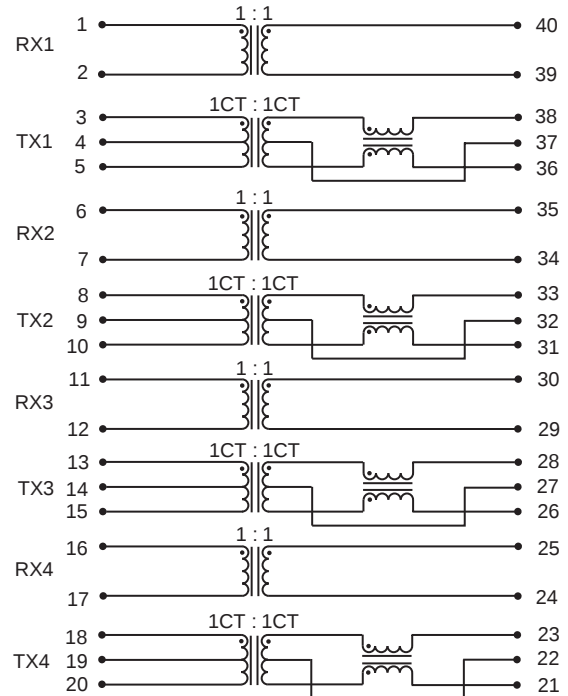
LM00500

SCHEMATICS

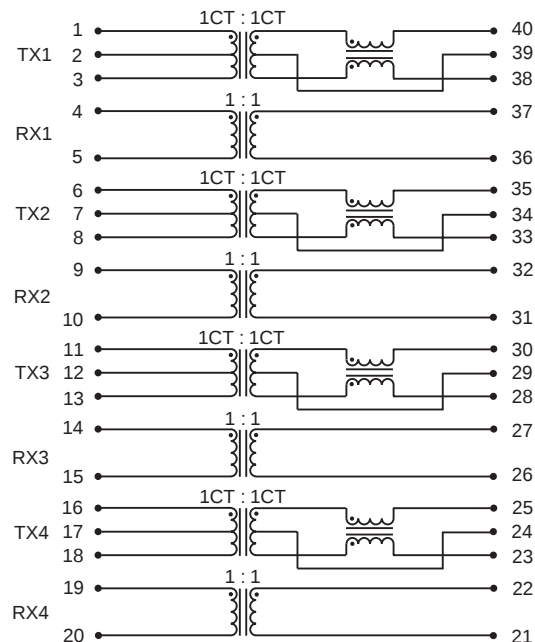
S553-5999-24
S553-5999-39



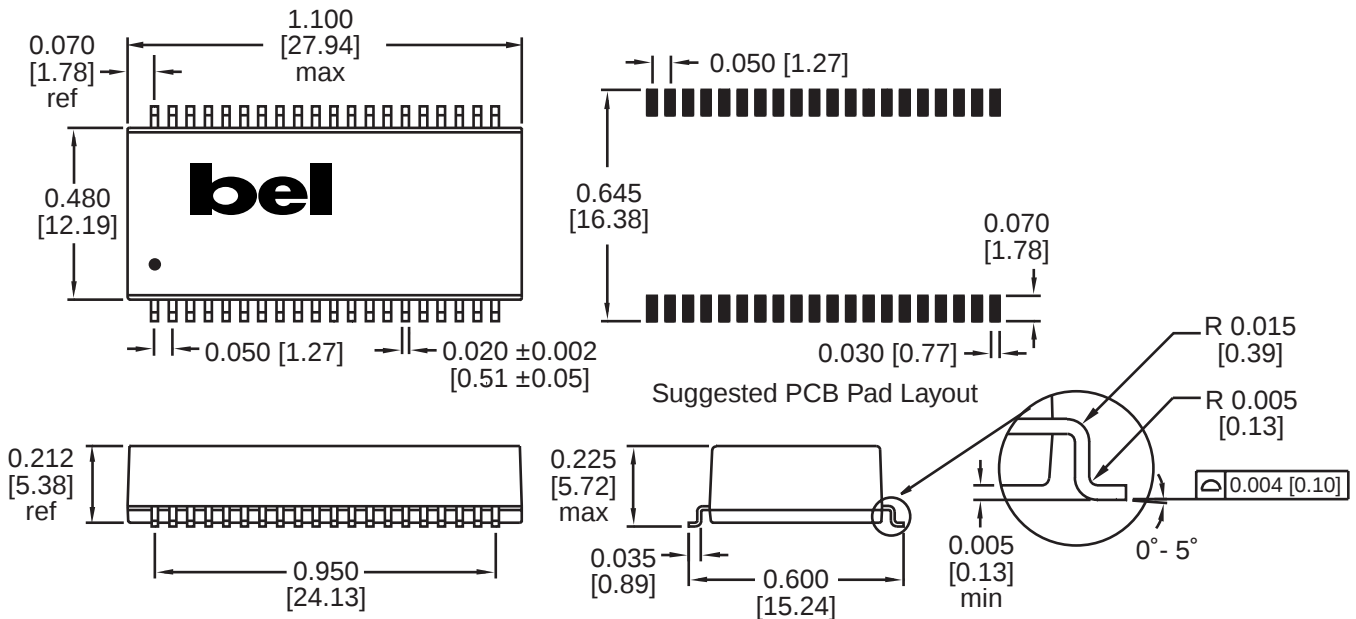
S553-5999-32



S553-5999-76



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

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