

10/100BASE-T LAN MAGNETICS

Single-Port Transformer Modules



LM00410

- Low profile, surface mount packaging rated to 225° C peak IR reflow temperature
- Meets all IEEE 802.3 standards including 350μH with 8mA bias
- 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 Differential Mode Rejection dB min	Common to Common Mode Rejection dB min	Crosstalk dB min			
	100kHz to 100MHz	100kHz to 30MHz	30MHz to 60MHz	60MHz to 80MHz	100kHz to 100MHz			1MHz	30MHz	60MHz	100MHz
S558-1287-00	-1.0	-20	-19	-12	-40	-40		-65	-55	-50	-40
S558-1287-01	-1.0	-18	-12	-12	-40	-40		-65	-55	-50	-40
S558-1287-02	-1.0	-20	-19	-12	-40	-40		-65	-55	-50	-40
S558-1287-03	-1.0	-20	-18	-12	-40	-40		-65	-55	-50	-40
S558-5999-50	-1.0	-20	-19	-12	-50	-30		-65	-55	-45	-35
S558-5999-54	-1.0	-20	-19	-12	-50	-30		-65	-55	-45	-35
S558-5999-64	-1.0	-20	-19	-12	-40	-40		-65	-55	-45	-35
S558-5999-82	-1.0	-18	-12	-12	-40	-40		-65	-55	-50	-40
S558-5999-86	-1.0	-20	-19	-12	-35	-30		-65	-55	-45	-35
S558-5999-96	-1.0	-20	-18	-12	-40	-40		-65	-55	-50	-40
S558-5999-97	-1.0	-20	-19	-12	-35	-30		-65	-55	-45	-35
S558-5999-E3	-1.0	-20	-18	-12	-40	-40		-65	-55	-50	-40

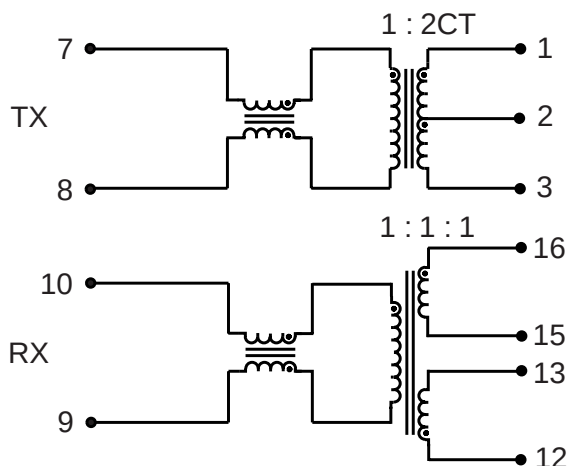
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Single-Port Transformer Modules

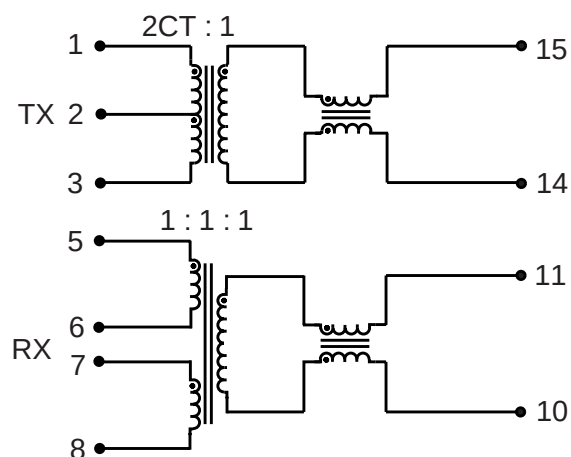
SCHEMATICS

Part Number	Turns Ratio	
	TX (Pri : Sec)	RX (Pri : Sec)
S558-1287-00	2CT : 1	1 : 1 : 1
S558-1287-01	2CT : 1	1 : 1 : 1
S558-1287-02	2CT : 1	1 : 1 : 1
S558-1287-03	1 : 2CT	1 : 1
S558-5999-50	1 : 1.41CT	1CT : 1CT
S558-5999-54	1CT : 1.41CT	1CT : 1CT
S558-5999-64	1 : 2CT	1 : 1
S558-5999-82	1CT : 2CT	1 : 1 : 1CT
S558-5999-86	1 : 1.23CT	1CT : 1CT
S558-5999-96	2CT : 1	1CT : 1CT
S558-5999-97	1CT : 1.23	1CT : 1CT
S558-5999-E3	2CT : 1	1CT : 1CT

S558-1287-00
S558-1287-02



S558-1287-01



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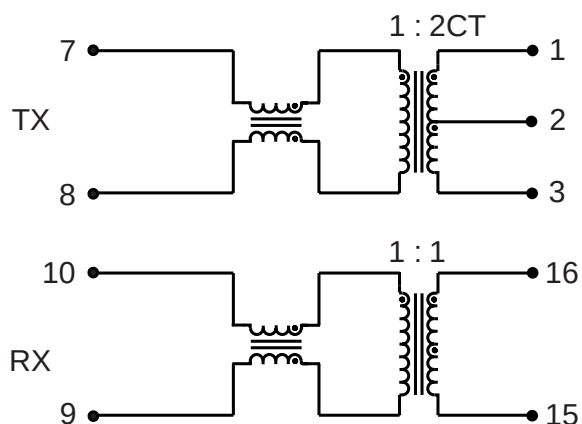
Single-Port Transformer Modules

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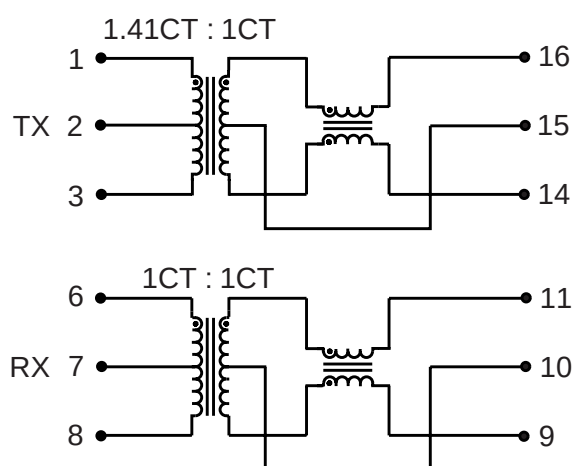
LM00410

SCHEMATICS

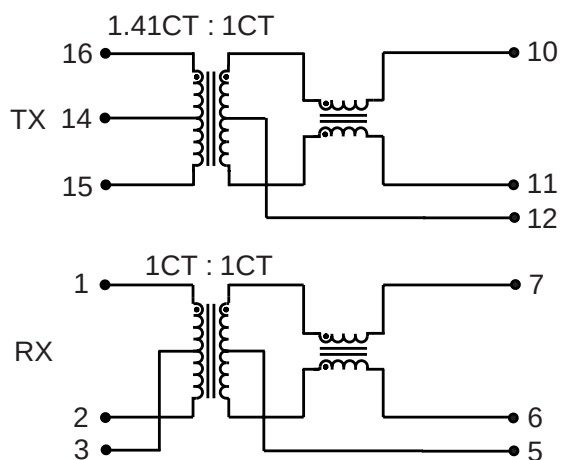
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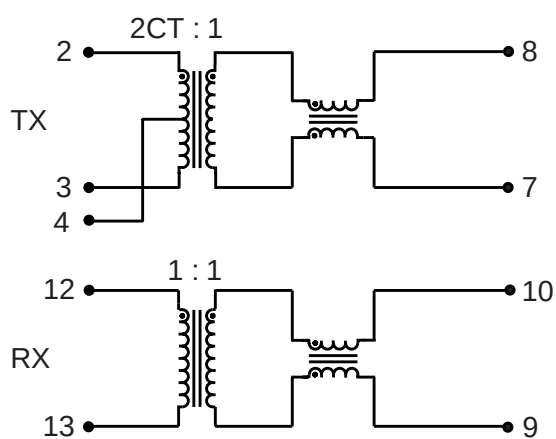
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S558-5999-54

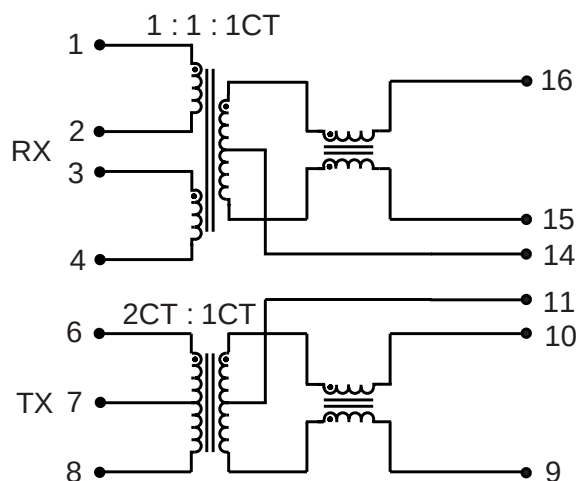


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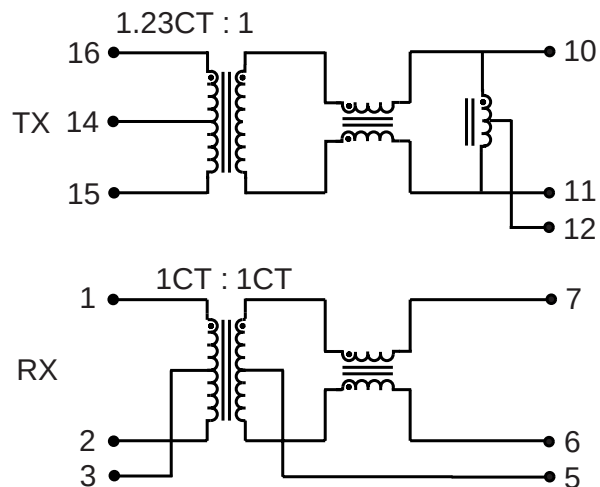


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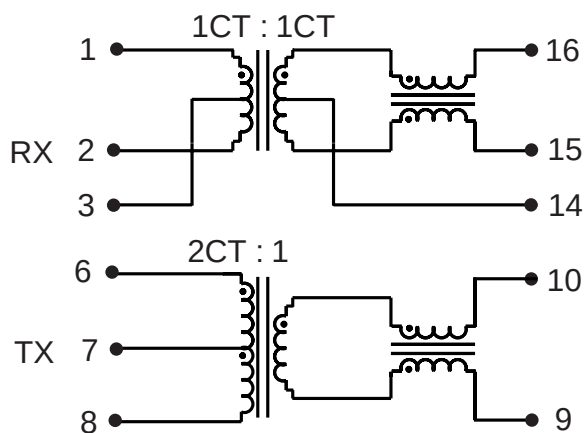
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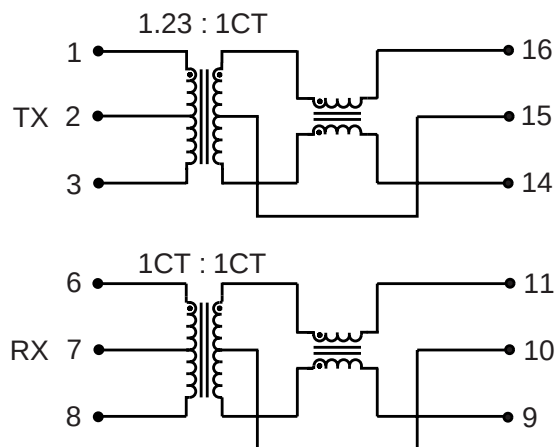
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S558-5999-96



S558-5999-97



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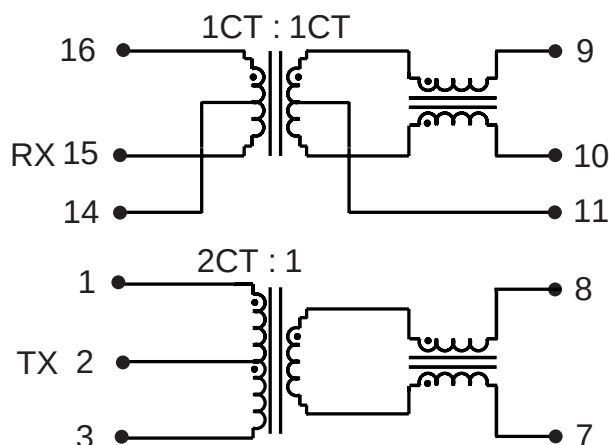
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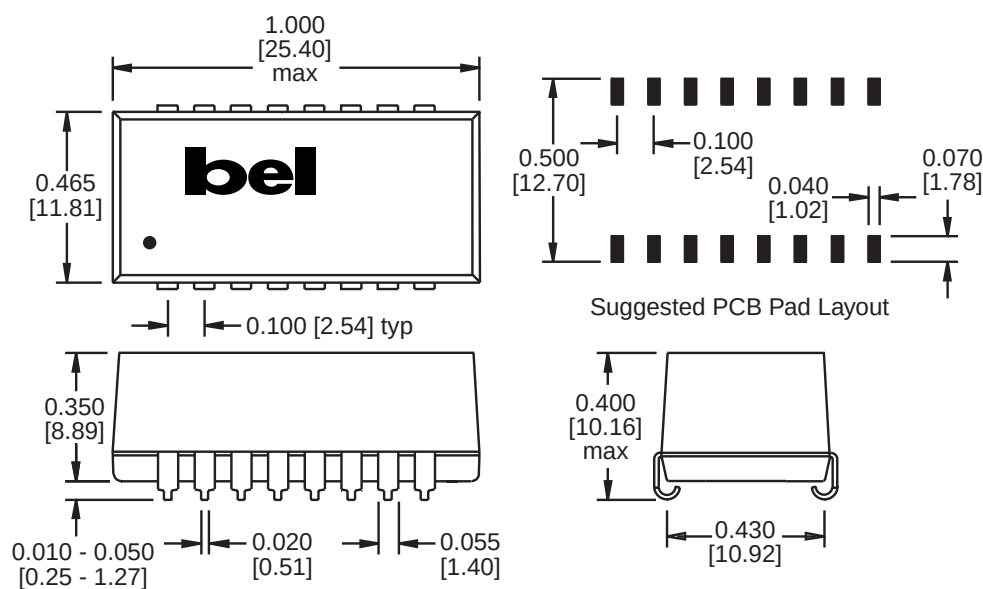
SCHEMATICS

S558-5999-E3



MECHANICALS

S558-1287-00



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

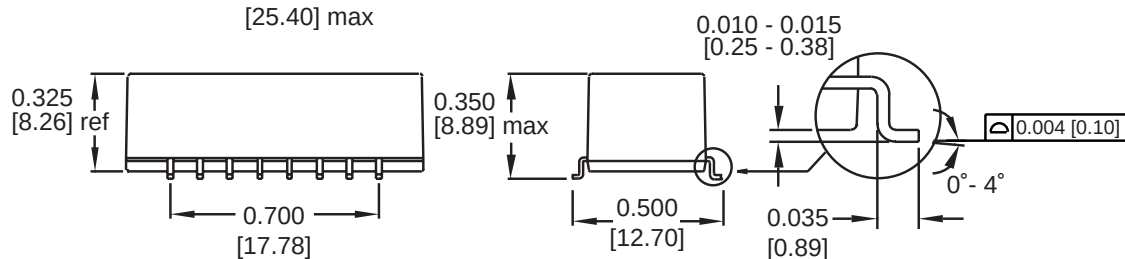
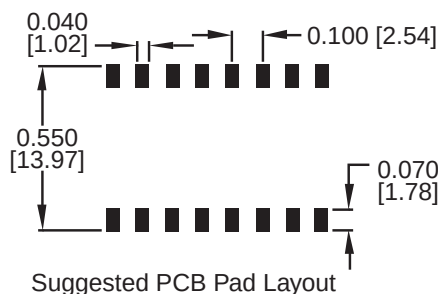
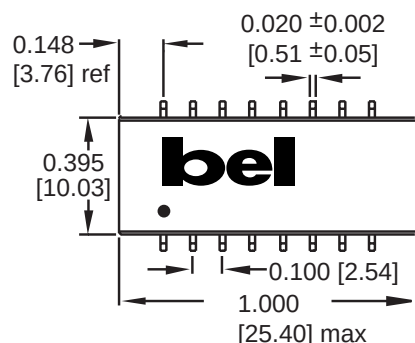
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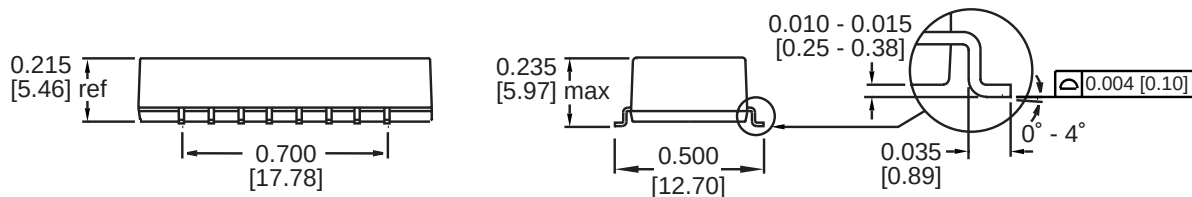
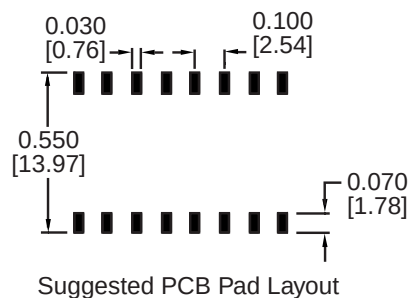
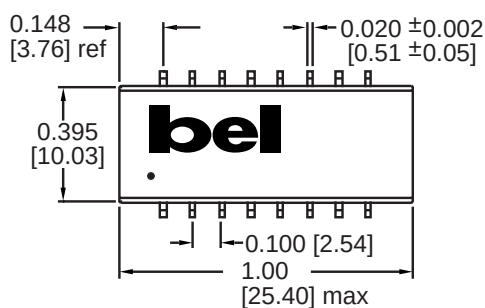
MECHANICALS

S558-1287-01
S558-1287-02
S558-1287-03
S558-5999-64



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S558-5999-50
S558-5999-54
S558-5999-82
S558-5999-86
S558-5999-96
S558-5999-97
S558-5999-E3



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