

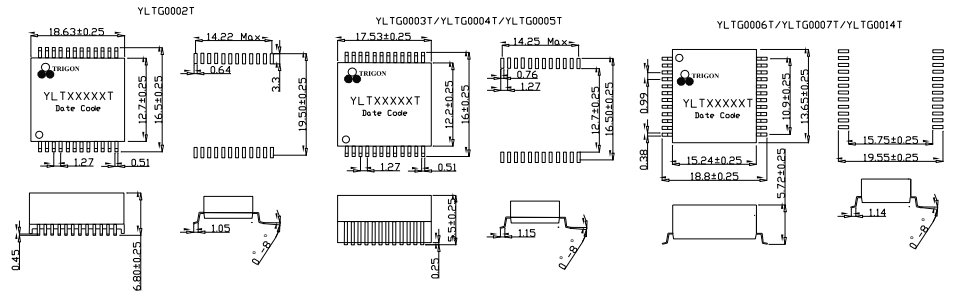
YLTG Series

1000Base-T Magnetics modules-To support 1:1 Turns Ratio Transceivers

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COMPONENTS



Mechanical Dimensions



FEATURES

- Surface Mount
- Cost Effective
- Optimum Performance
- Industrial Standard Foot Print
- Optional Pin-Outs
- RoHS peak reflow temperature rating 245°C.
- Meets IEEE 802.3 specification.

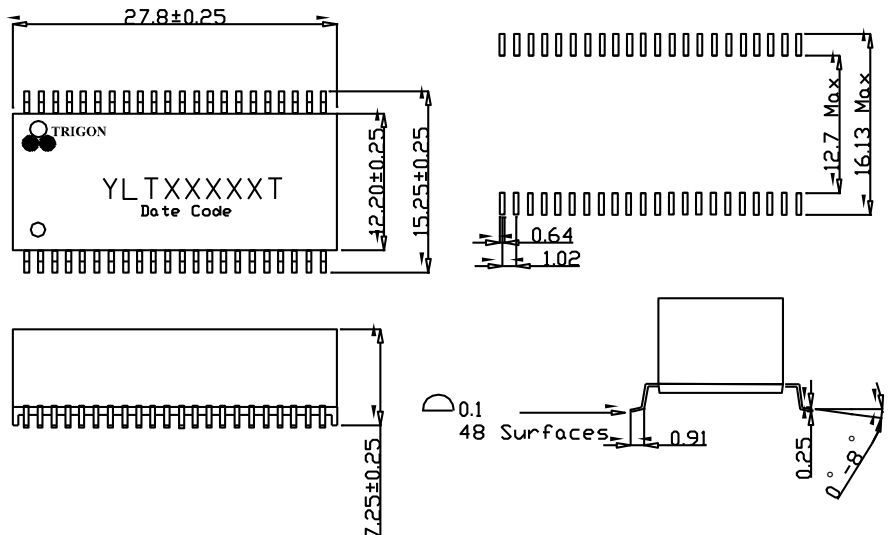
ORDERING CODE

YLT G XXXX T

(1) (2) (3) (4)

- (1) LAN Transformer
- (2) Gigabit
- (3) Series code
- (4) Package
T= Tape & Reel

YLTG0001T/YLTG0008T/YLTG0009T/YLTG0010T



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Electrical Specifications @ 25°C, Operating Temperature 0°C~70°C

Part Number	Number of Ports	Insertion Loss (dB TYP)	Return Loss (dB Min)				
			1-100MHZ	1-30MHZ	40MHZ	50MHZ	60-80 MHZ
YLTG0001T	2	1.4	-16	-14.4	-13.1	-12	-10
YLTG0002T	1	1.1	-18	-18	-13.6	-12	-
YLTG0003T	1	1	-18	-18	-16	-12	-10
YLTG0004T	1	1	-18	-18	-16	-12	-10
YLTG0005T	1	1	-18	-18	-16	-12	-10
YLTG0006T	1	1	-18	-18	-16	-12	-10
YLTG0007T	1	1	-18	w-18	-16	-12	-10
YLTG0008T	1	1	-18	-18	-16	-12	-10
YLTG0009T	2	1.4	-16	-14.4	-13.1	-12	-10
YLTG0010T	2	1.4	-16	-14.4	-13.1	-12	-10
YLTG0011T	1	1	-18	-18	-16	-12	-10
YLTG0012T	2	1	-18	-14.4	-13.1	-12	-10
YLTG0013T	2	1	-18	-14.4	-13.1	-12	-10
YLTG0014T	2	1.4	-16	-14.4	-13.1	-12	-10

Electrical Specifications (Continued)

Part Number	Crosstalk (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Hipot (Vrms MIN)
	30MHZ	60MHZ	100MHZ	30MHZ	60MHZ	100MHZ	
YLTG0001T	-43.5	-37.5	-33	-45	-40	-35	1500
YLTG0002T	-35	-31.5	-27	-30	-30	-30	1500
YLTG0003T	-43	-37	-33	-43	-37	-33	1500
YLTG0004T	-43	-37	-33	-43	-37	-33	1500
YLTG0005T	-43	-37	-33	-43	-37	-33	1500
YLTG0006T	-43	-37	-33	-43	-37	-33	1500
YLTG0007T	-43	-37	-33	-43	-37	-33	1500
YLTG0008T	-43	-37	-33	-43	-37	-33	1500
YLTG0009T	-43.5	-37.5	-33	-45	-40	-35	1500
YLTG0010T	-43.5	-37.5	-33	-45	-40	-35	1500
YLTG0011T	-43	-37	-33	-43	-37	-33	1500
YLTG0012T	-40	-37	-28	-40	-35	-30	1500
YLTG0013T	-40	-37	-28	-40	-35	-30	1500
YLTG0014T	-43.5	-37.5	-33	-45	-40	-33	1500

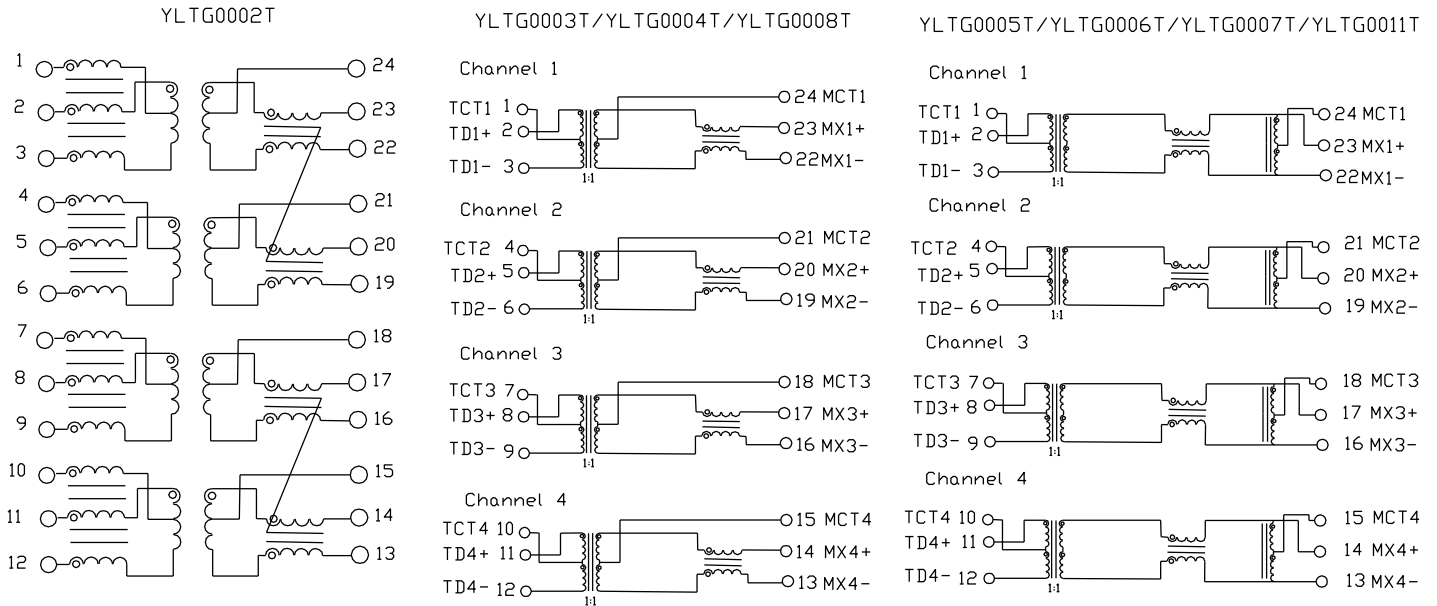
- OCL: 350uH min. with 8mA applied.
- Transformers with operating temperature @ -40°C ~ +85°C are available upon request.
- YLTG0013T already have operating temperature @ -40°C ~ +85°C

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Schematics



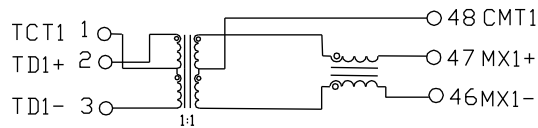
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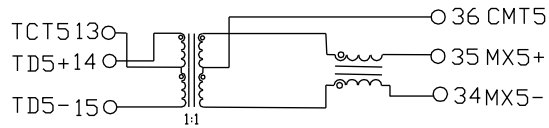
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YLTG0001T/YLTG0010T

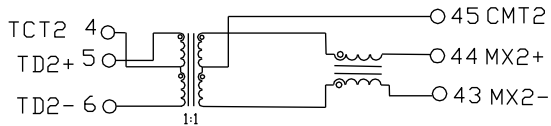
Channel 1-Port 1



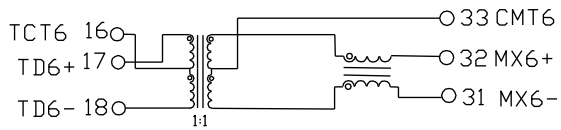
Channel1-Port2



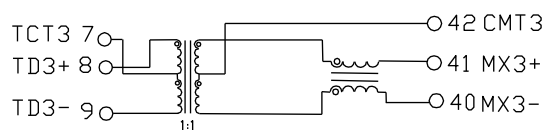
Channel2-Port1



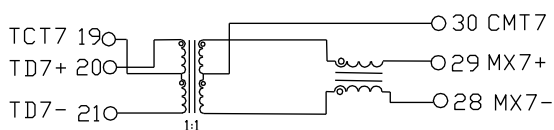
Channel 2-Port 2



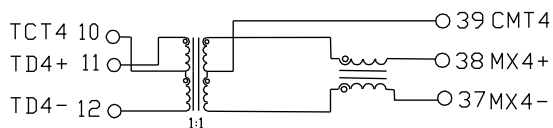
Channel 3-Port 1



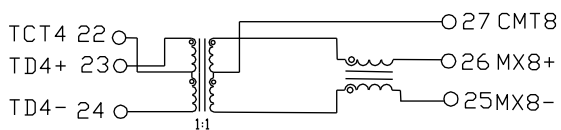
Channel 3-Port 2



Channel 4-Port 1

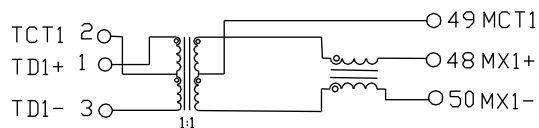


Channel 4-Port 2

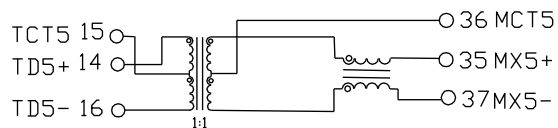


YLTG0012T/YLTG0013T

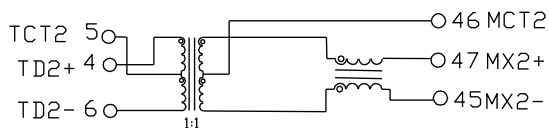
Channel 1-Port 1



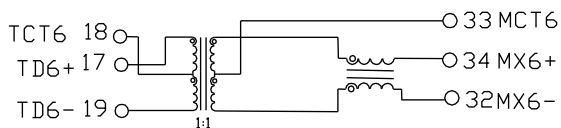
Channel 1-Port 1



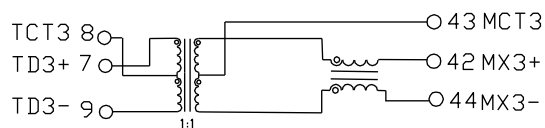
Channel 2-Port 1



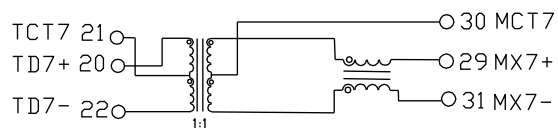
Channel 2-Port 1



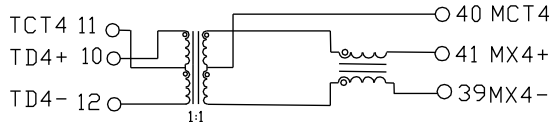
Channel 3-Port 1



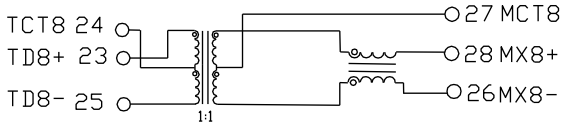
Channel 3-Port 1



Channel 4-Port 1



Channel 4-Port 1



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