



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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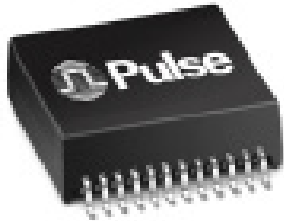
Email & Skype: info@chipsmall.com Web: www.chipsmall.com





Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Ruggedized



-  Compliant with IEEE 802.ab for 1000Base-T
-  350µH OCL with 8mA bias at extended temperatures
-  Two Operating and Storage Temperature Versions Available:
 - Standard: -40°C to +85°C
 - Extended: -55°C to +125°C
-  245°C peak reflow temperature for RoHS versions (MSL 4)
Lead finish: Sn63/Pb37 (RoHS compliant version available with 100% pure tin)

Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

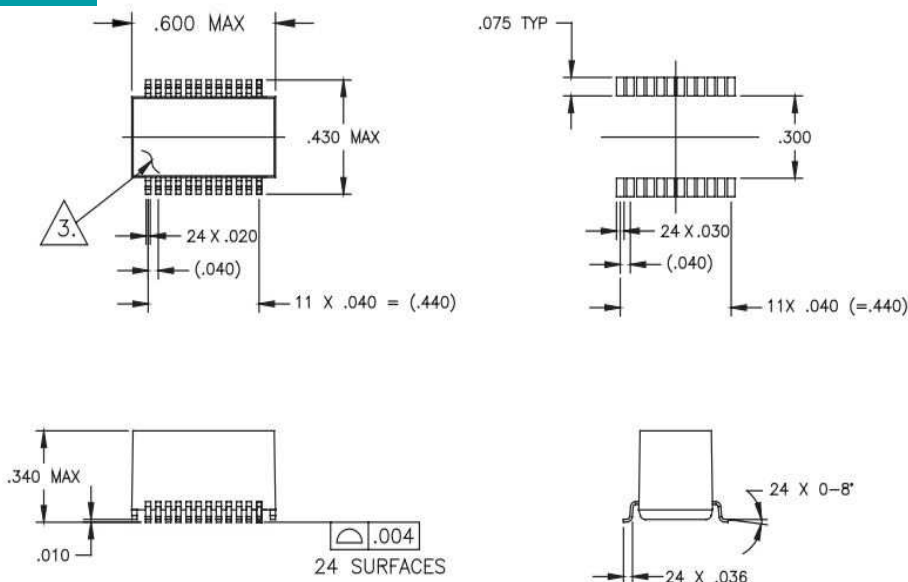
Part Number ^{1,2}	Insertion Loss (dB Min)	Return Loss (dB Max)				Crosstalk (dB Max)			CM to CM Rejection Ratio (dB Max)			DM to CM Rejection Ratio (dB Max)			Hipot (Vrms)
		0.1-100 Mhz	30 Mhz	60 Mhz	80 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	100 Mhz	30 Mhz	60 Mhz	
1000B-5009F	-1.2	-18	-12	-12	-10	-43	-37	-31	-30	-25	-18	-40	-35	-30	1500
1000B-5012F	-1	-18	-12	-12	-10	-43	-37	-33	-43	-37	-33	-43	-37	-33	1500
1000B-5014F	-1.4	-16	-12	-12	-10	-43	-37	-33	-45	-40	-35	-43	-37	-33	1500
1000B-5016F*	-1.2	-18	-12	-12	-10	-43	-37	-31	-30	-23	-17	-40	-35	-30	1500

Note: 1. Add suffix X for extended temperature version; i.e. 1000B-5009F becomes 1000B-5009FX. (*1000B-5016F does not offer X-Version)
2. Add suffix NL for RoHS compliant part; i.e. 1000B-5012F becomes 1000B-5012FNL.

3. For Tape & Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5014FT

Mechanicals

1000B-5009F/X



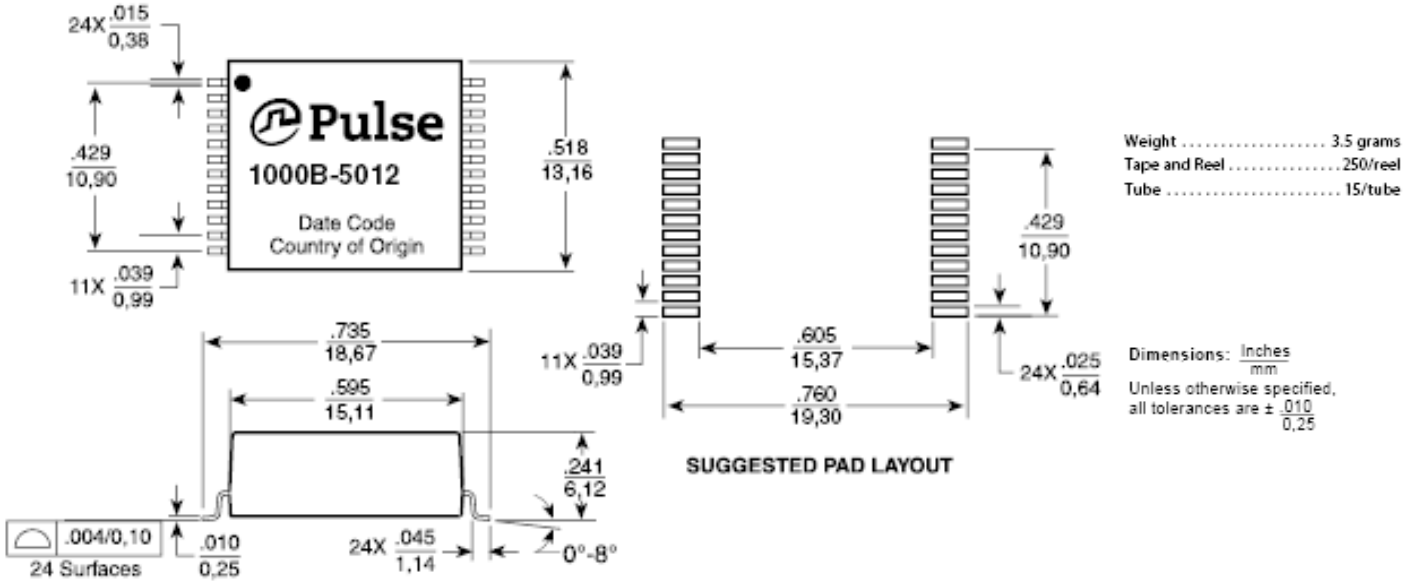
Weight 0.75 grams
Tape and Reel 250/reel
Tube 15/tube

Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± $\frac{.010}{0.25}$

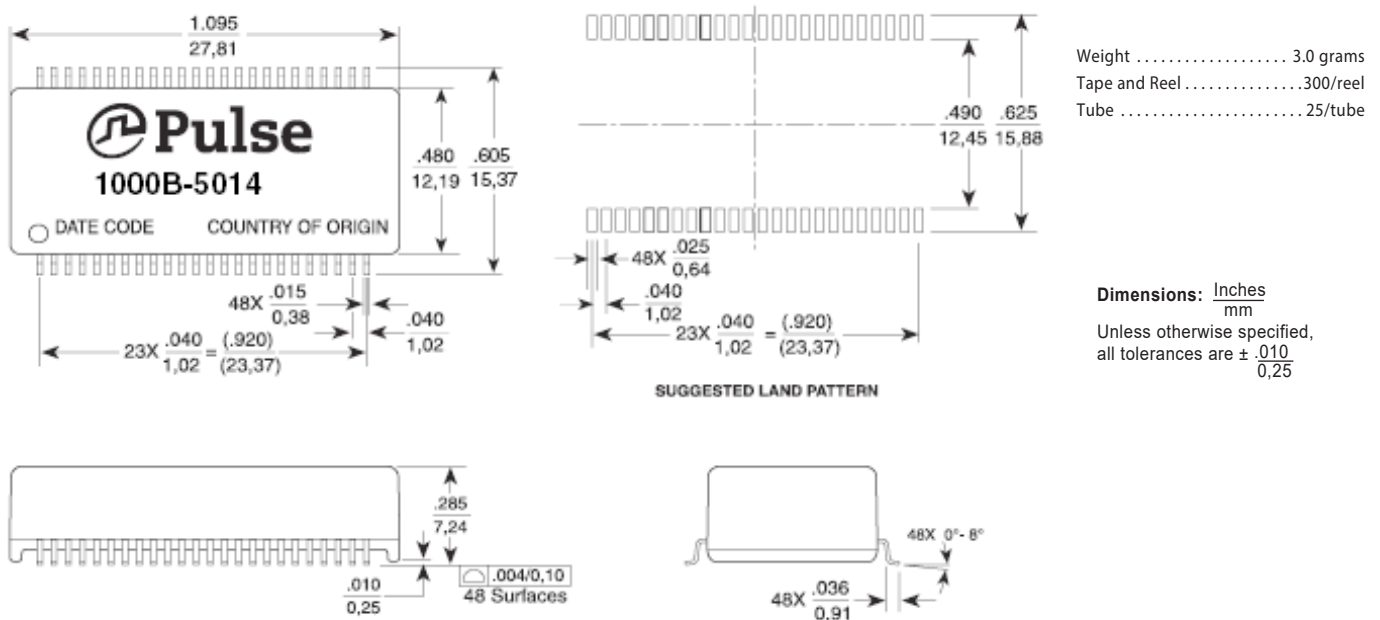
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1000B-5012/X



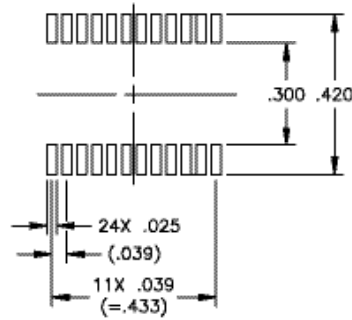
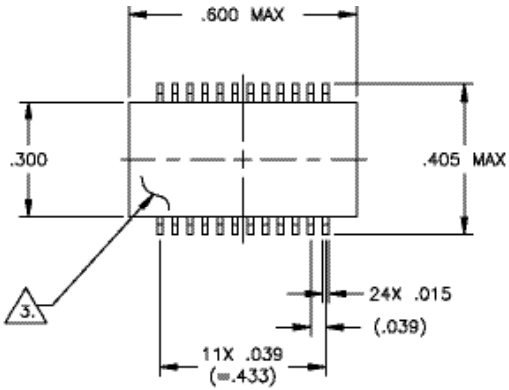
1000B-5014F/X



10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

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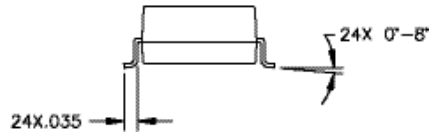
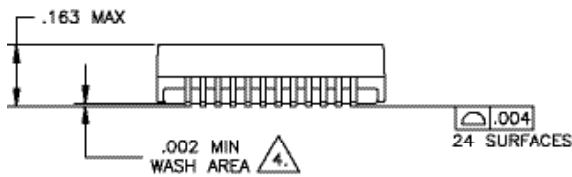
1000B-5016F



SUGGESTED LAND PATTERN

Weight 0.75 grams
Tape and Reel700/reel
Tube 30/tube

Dimensions: Inches
 mm
Unless otherwise specified,
all tolerances are ± .010
 0,25



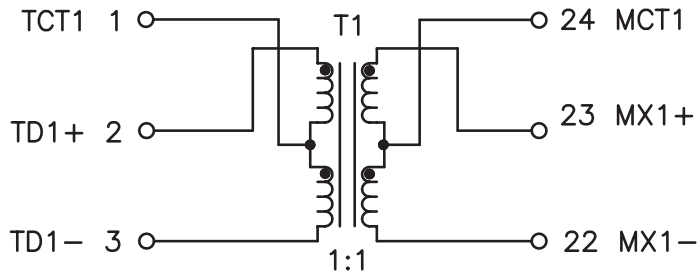
10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

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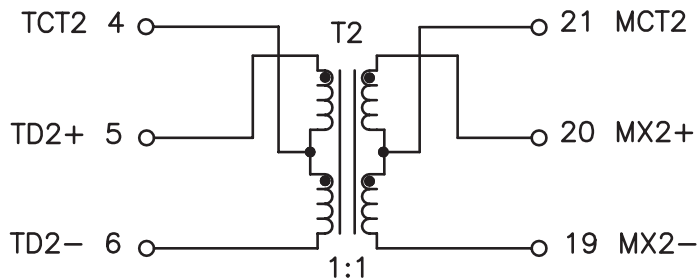
Electrical Schematics

1000B-5009F/X

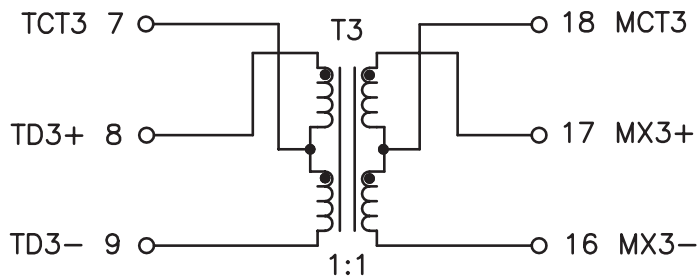
CHANNEL 1



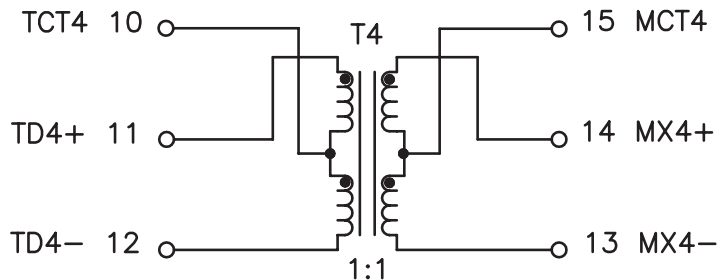
CHANNEL 2



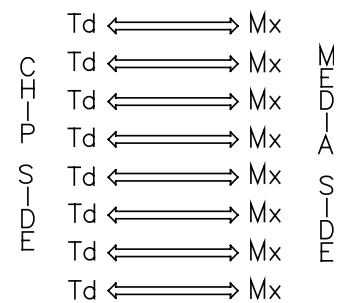
CHANNEL 3



CHANNEL 4



LEGEND

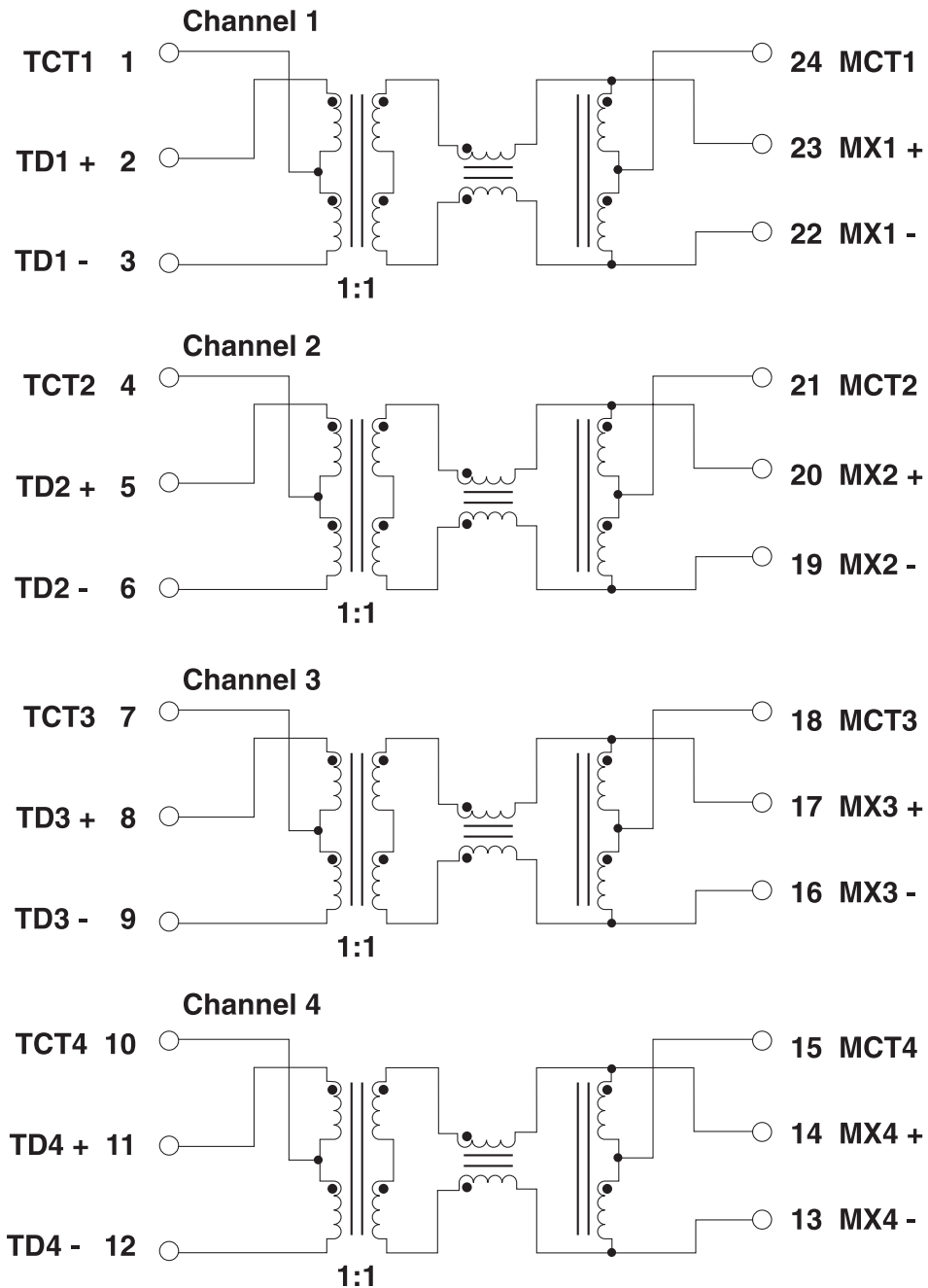


ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

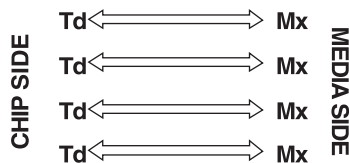
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Ruggedized

1000B-5012F/X



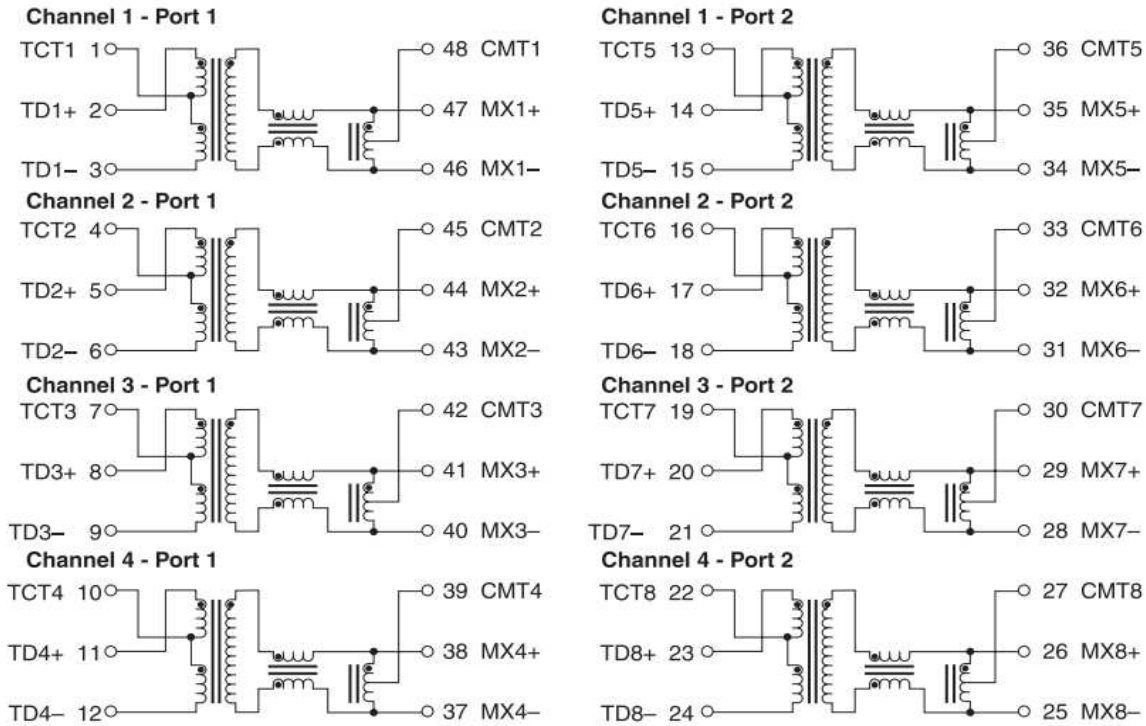
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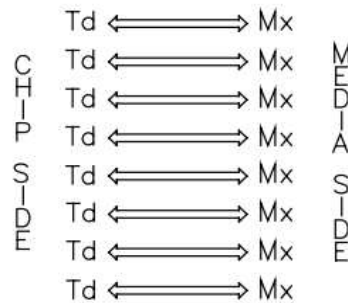
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1000B-5014F/X



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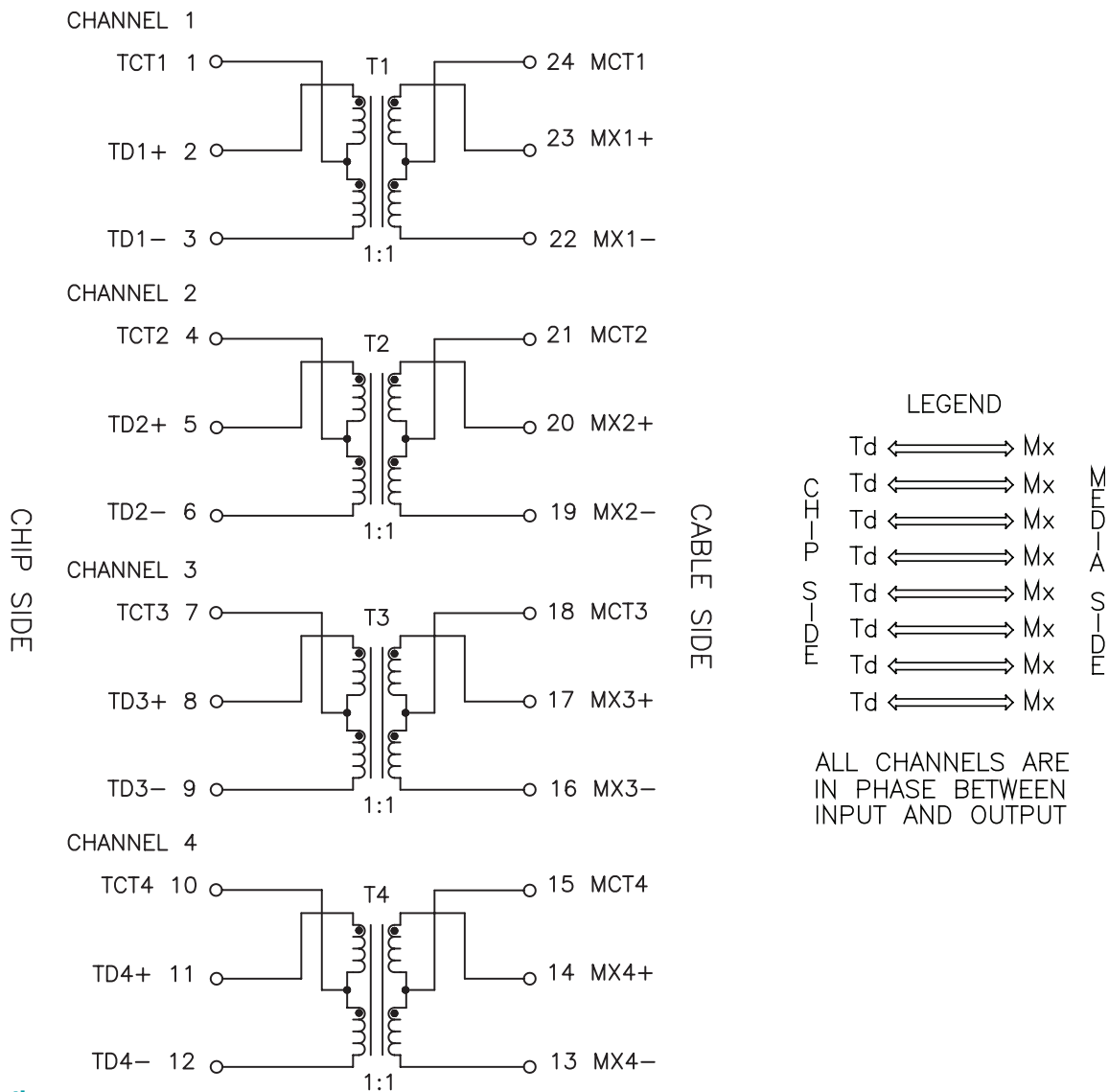
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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1000B-5016F



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