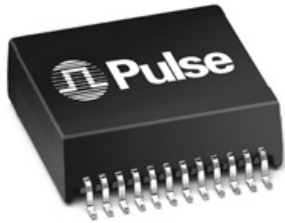


10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



- 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**
- IC grade transfer molded package 235°C peak reflow temperature for non-RoHS versions (MSL 3)
- 245°C peak reflow temperature for RoHS versions (MSL 4)
- Lead finish: Sn63/Pb37 (RoHS compliant version available with 100% pure tin)

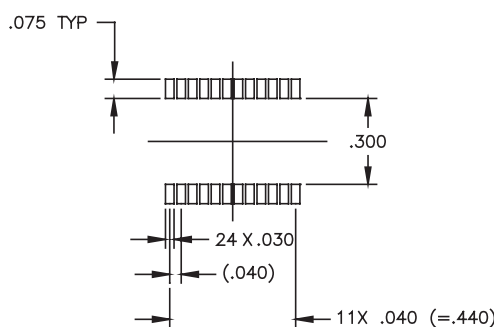
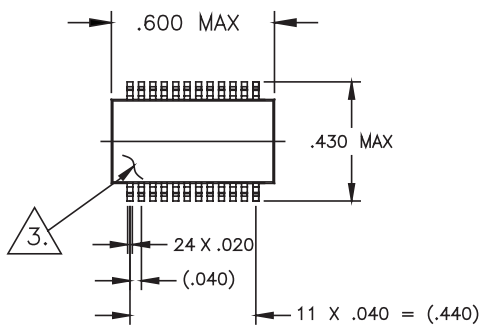
Electrical Specifications @ 25°C — Operating Temperature -40°C to +85°C

| Part Number 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. 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

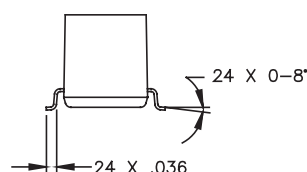
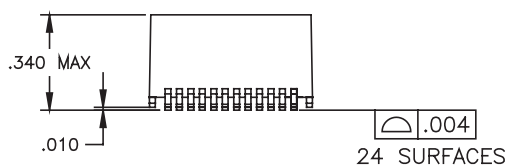
Mechanicals

1000B-5009F/X



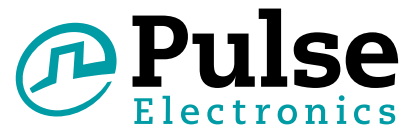
Weight 0.75 grams
 Tape and Reel 250/reel
 Tube 15/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
 Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

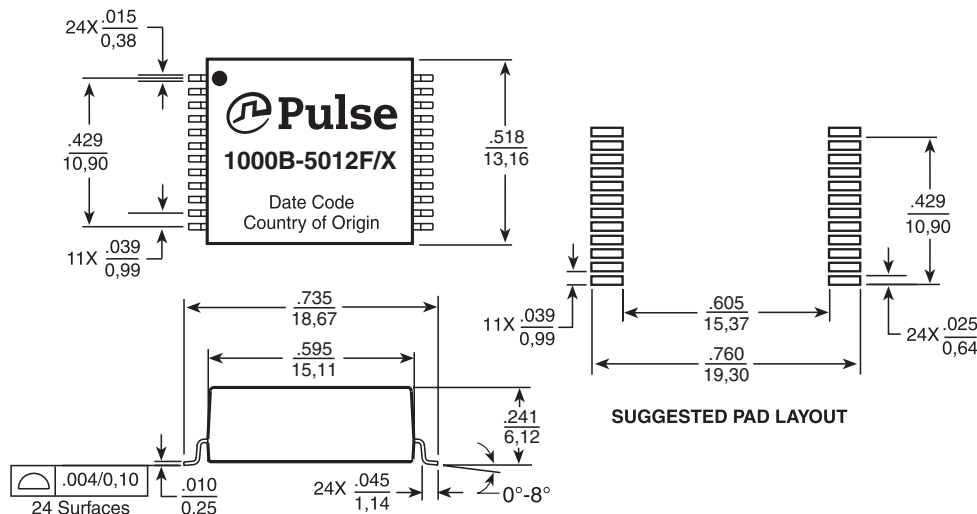


10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



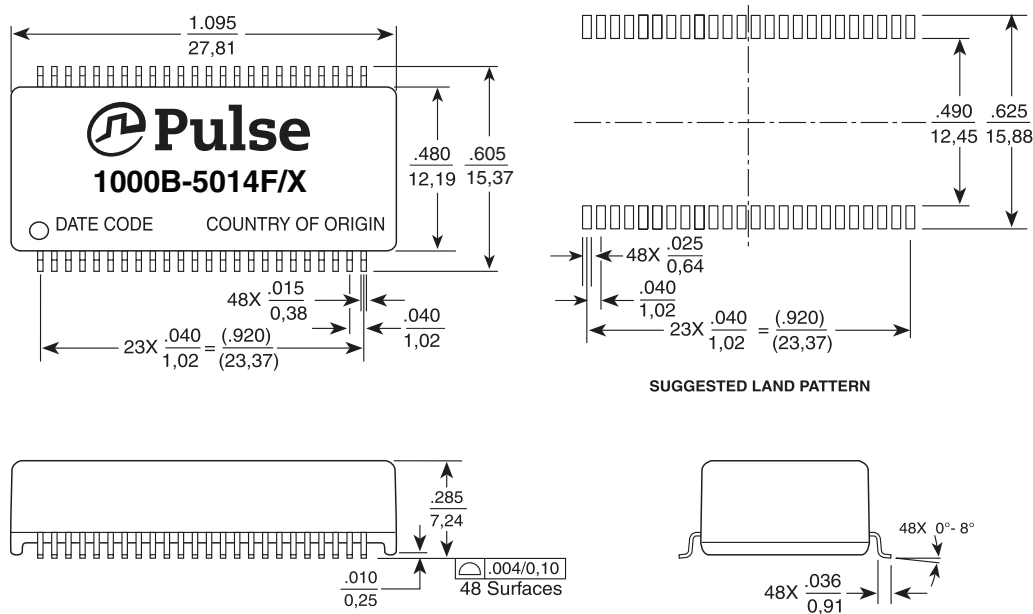
1000B-5012F/X



Weight 3.5 grams
Tape and Reel 250/reel
Tube 15/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

1000B-5014F/X

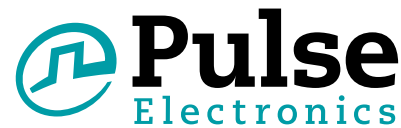


Weight 3.0 grams
Tape and Reel 300/reel
Tube25/tube

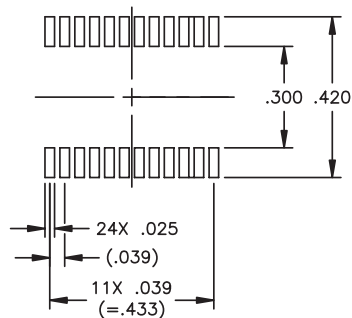
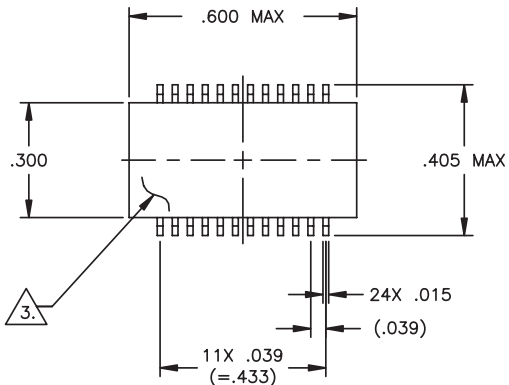
Dimensions: $\frac{\text{Inches}}{\text{mm}}$
Unless otherwise specified,
all tolerances are $\pm \frac{.010}{0,25}$

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

Military / Aerospace Grade



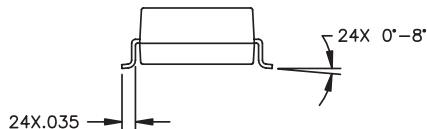
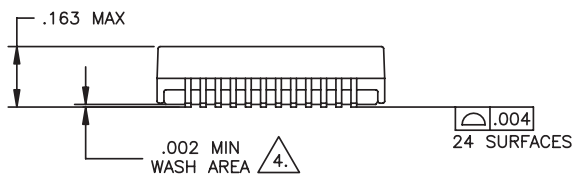
1000B-5016F/X



Weight 0.75 grams
 Tape and Reel 700/reel
 Tube30/tube

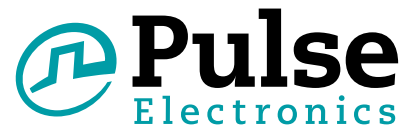
Dimensions: Inches
 mm
 Unless otherwise specified,
 all tolerances are $\pm \frac{.010}{0.25}$

SUGGESTED LAND PATTERN



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

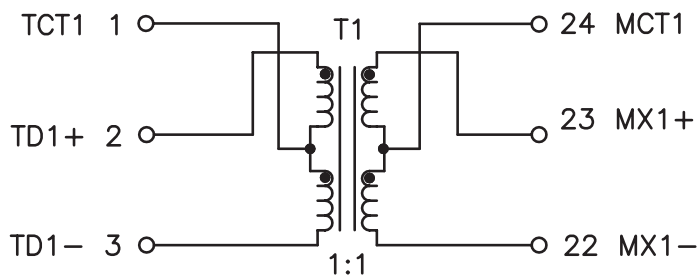
Military / Aerospace Grade



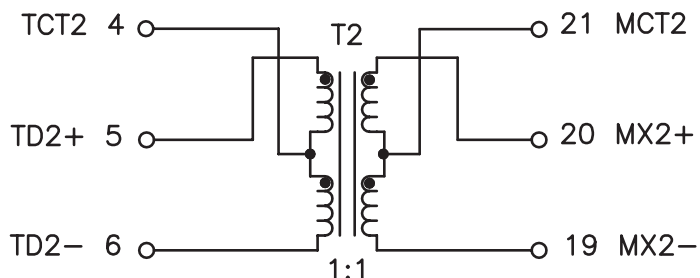
Electrical Schematics

1000B-5009F/X

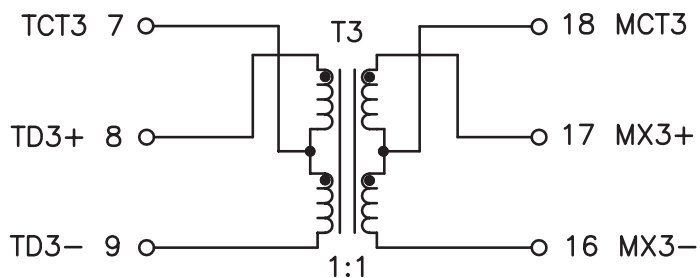
CHANNEL 1



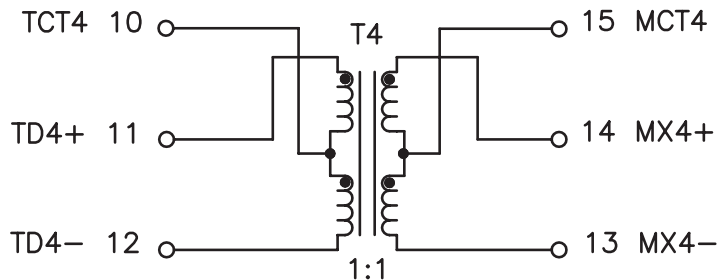
CHANNEL 2



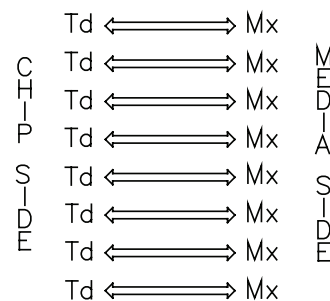
CHANNEL 3



CHANNEL 4



LEGEND



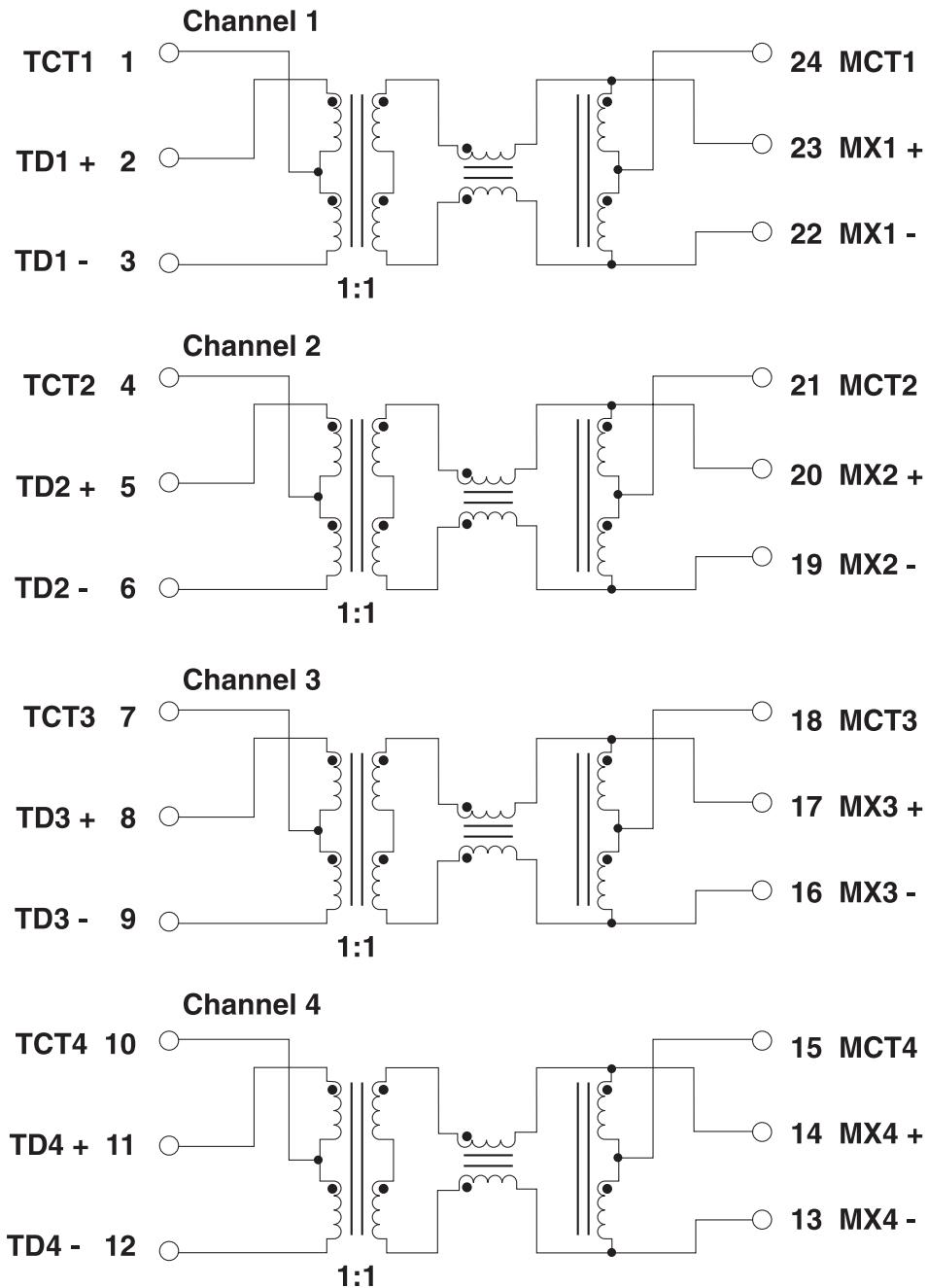
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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

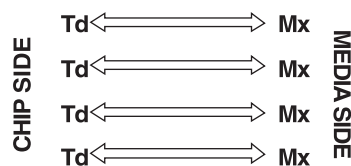
Military / Aerospace Grade



1000B-5012F/X

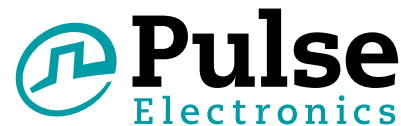


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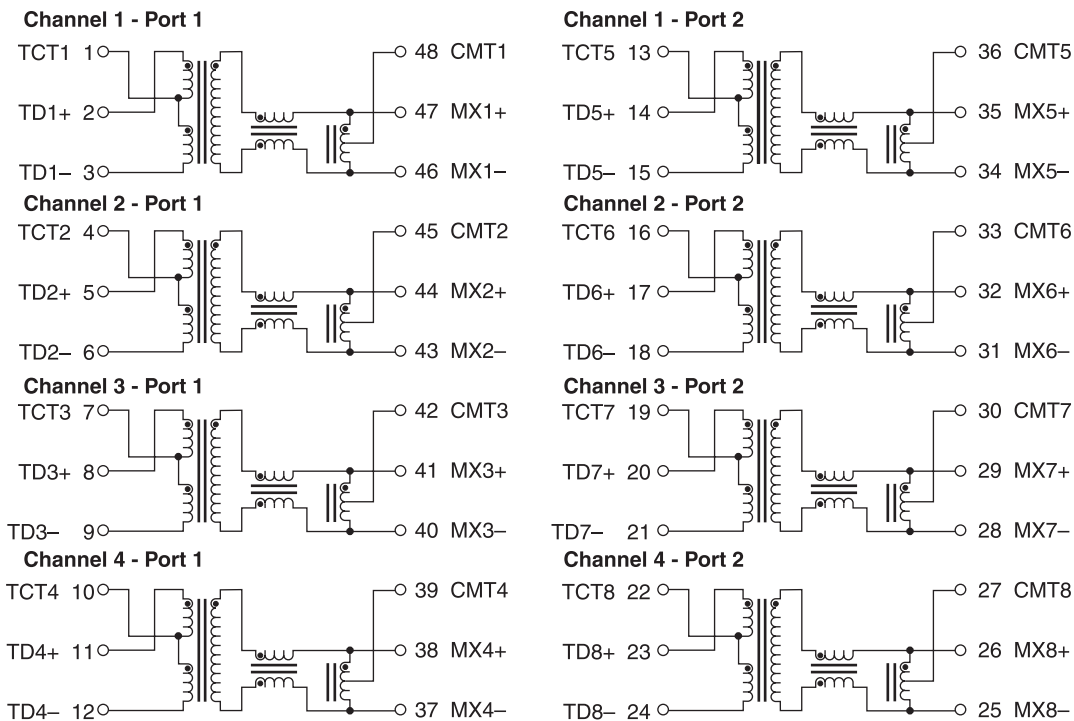


10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

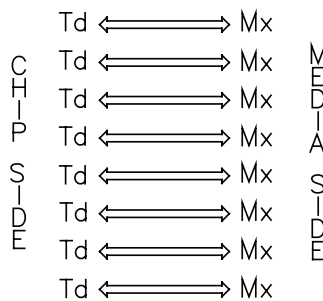
Military / Aerospace Grade



1000B-5014F/X



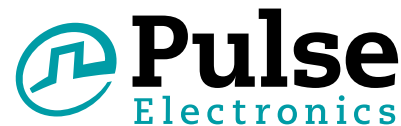
LEGEND



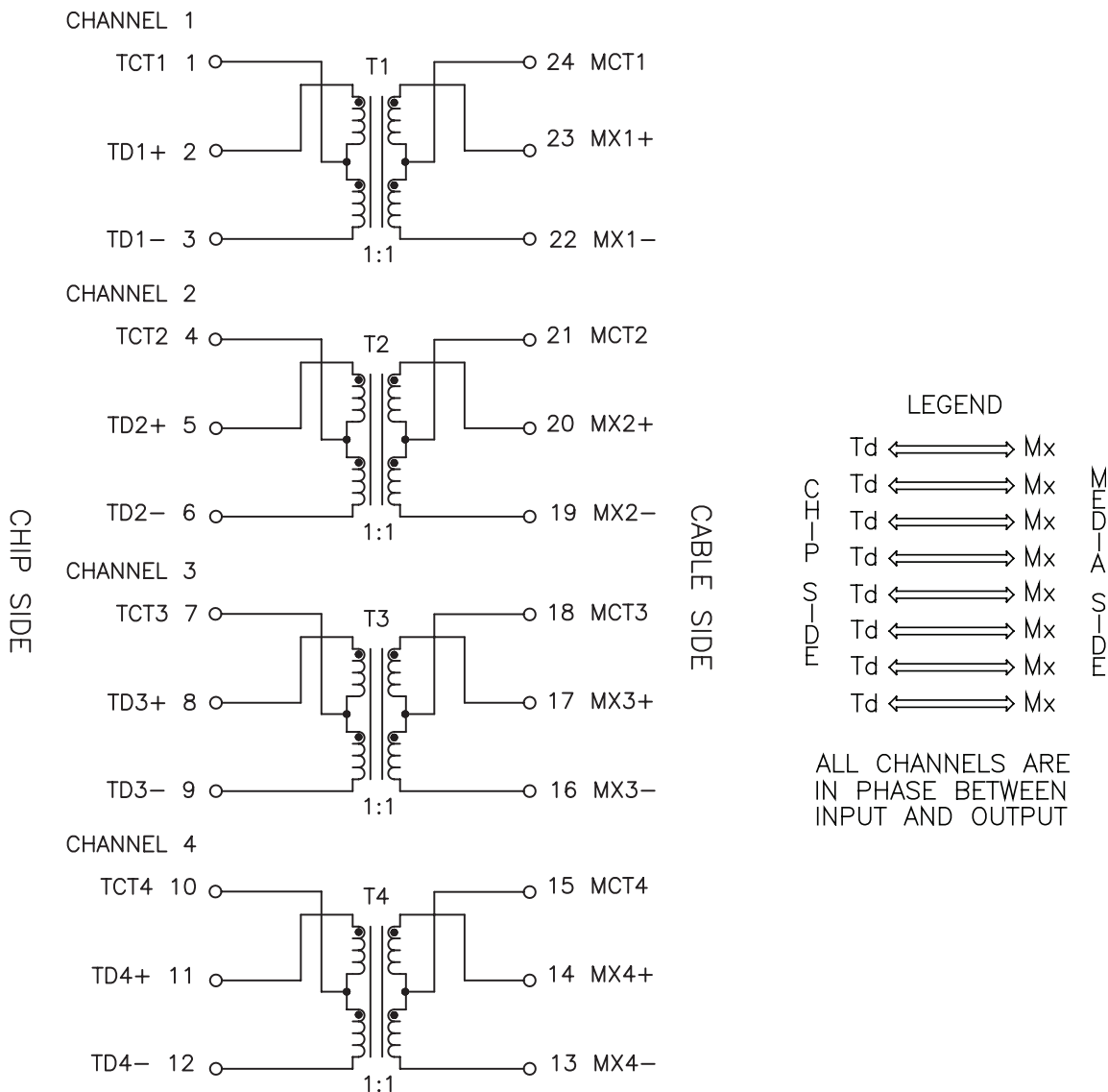
ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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

Military / Aerospace Grade



1000B-5016F/X



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