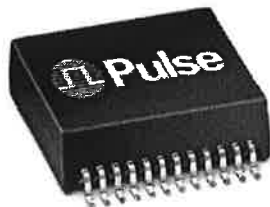
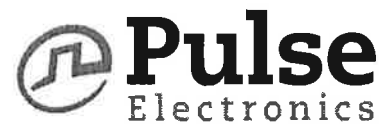


10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



- Compliant with IEEE 802.ab for 1000Base-T
- 350μH OCL with 8mA bias at extended temperatures
- Operating and storage temperature:
1000B-5001F/5002F/5003F
1000B-5001FX/5002FX/5003FX
- IC grade transfer-molded package withstands 235°C peak temperature profile RoHS version withstands 245°C
- MSL: 3

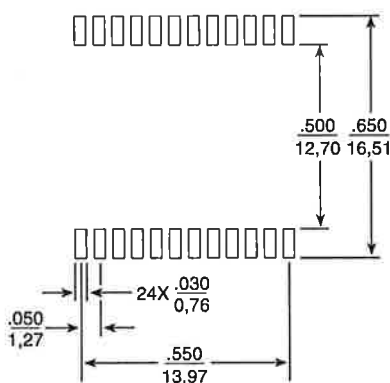
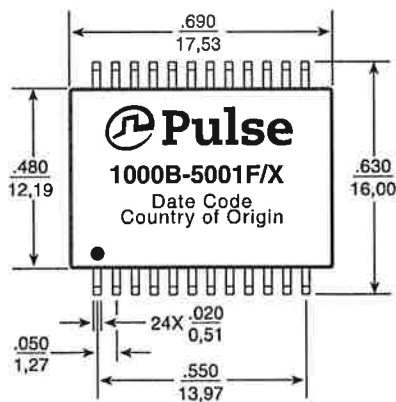
Electrical Specifications @ 25°C

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)		
		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-5001F	-1.20	-18	-12	-10	-10	-43	-37	-33	-40	-35	-30	-43	-37	-33
1000B-5001FX	-1.40	-18	-12	-10	-8	-43	-37	-33	-40	-35	-30	-43	-37	-33
1000B-5002F	-1.20	-18	-14	-12	-10	-43	-37	-33	-40	-35	-30	-43	-37	-33
1000B-5002FX	-1.20	-18	-14	-12	-10	-43	-37	-33	-40	-35	-30	-43	-37	-33
1000B-5003F	-1.20	-18	-14	-11	-9	-43	-37	-33	-40	-35	-30	-43	-37	-33
1000B-5003FX	-1.20	-18	-14	-11	-9	-43	-37	-33	-40	-35	-30	-43	-37	-33

Note: 1. Add suffix NL for RoHS compliant part; i.e. 1000B-5001F becomes 1000B-5001FNL. 2. For Tape and Reel Packaging, add "T" suffix at the end of the part number; i.e. 1000B-5001XT.

Mechanical

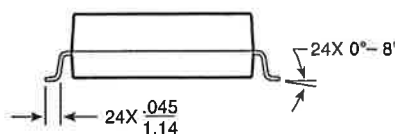
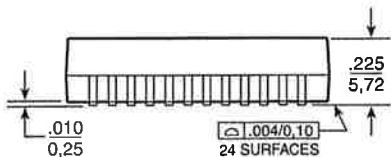
1000B-5001F/X



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

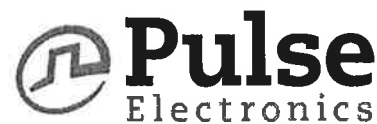
Dimensions: Inches
mm
Unless otherwise specified,
all tolerances are ± .010
0.25

SUGGESTED PAD LAYOUT

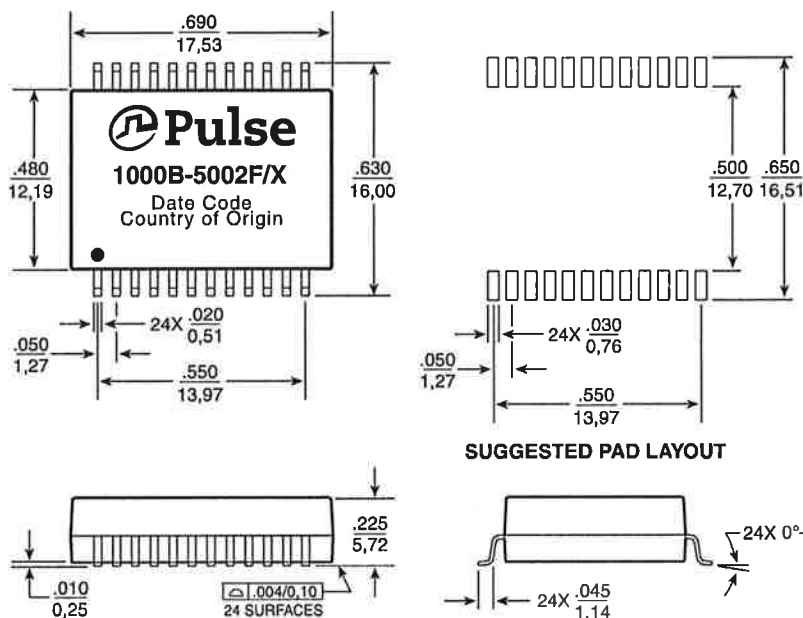


10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



1000B-5002F/X

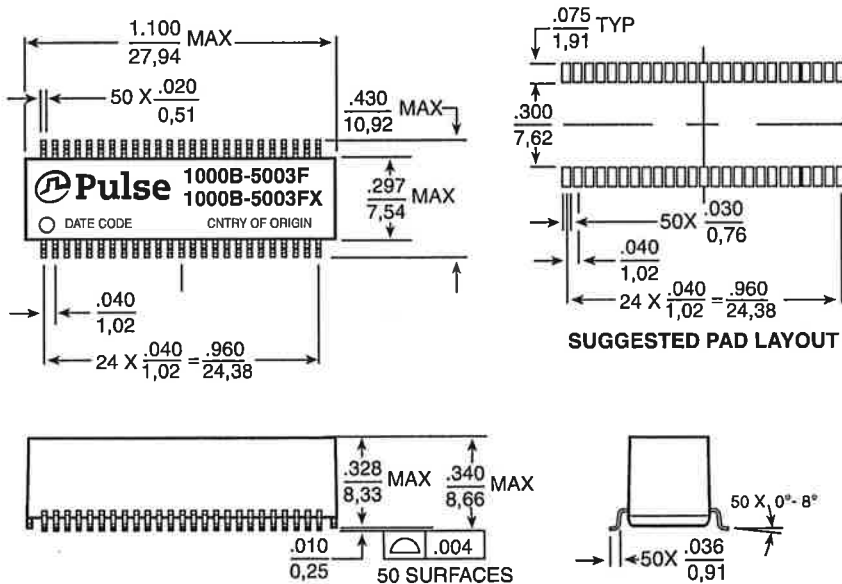


Weight2.6 grams
Tape and Reel 300/reel
Tube25/tube

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

SUGGESTED PAD LAYOUT

1000B-5003F/X



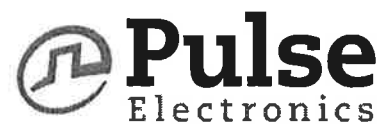
Weight3.5 grams
Tape and Reel 250/reel
Tube15/tube

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

SUGGESTED PAD LAYOUT

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

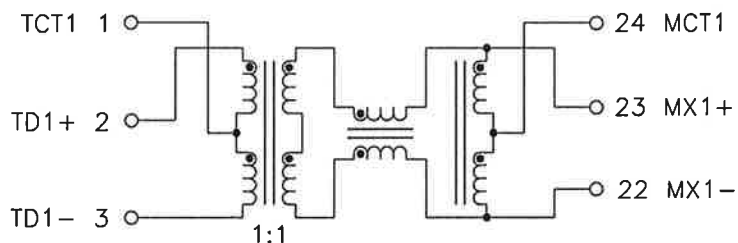
Military / Aerospace Grade



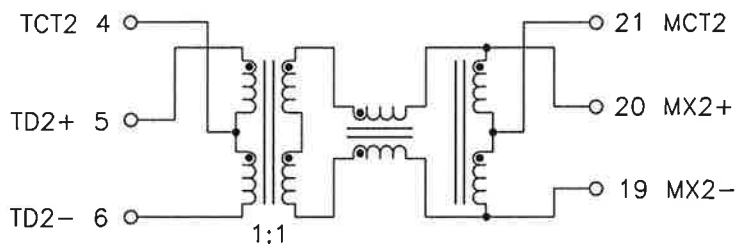
Electrical Schematic

1000B-5001F/X

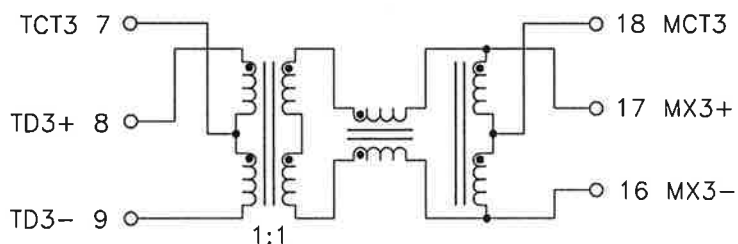
CHANNEL 1



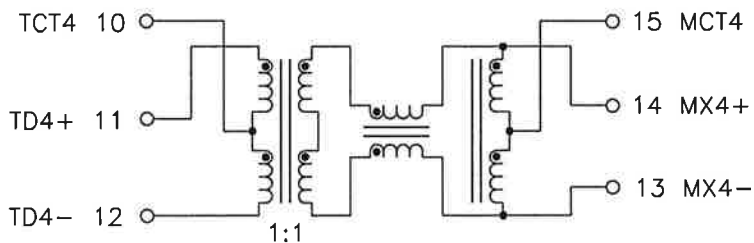
CHANNEL 2



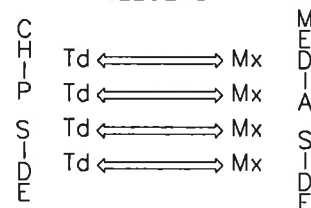
CHANNEL 3



CHANNEL 4



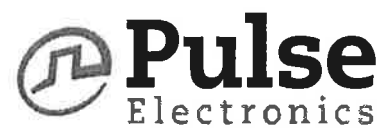
LEGEND



ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

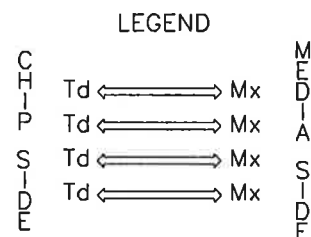
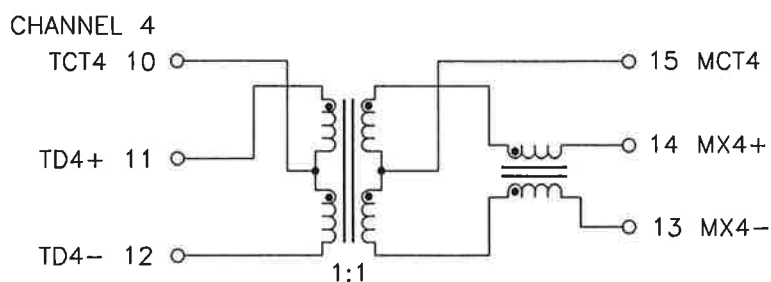
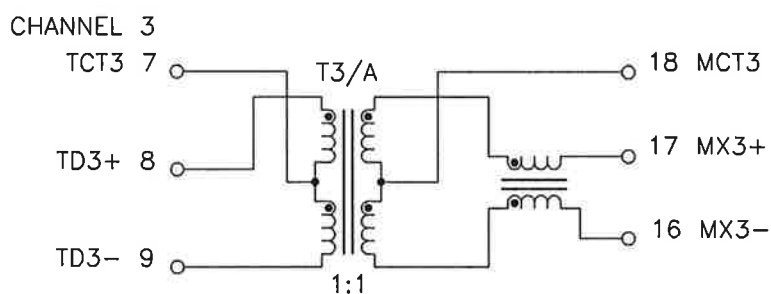
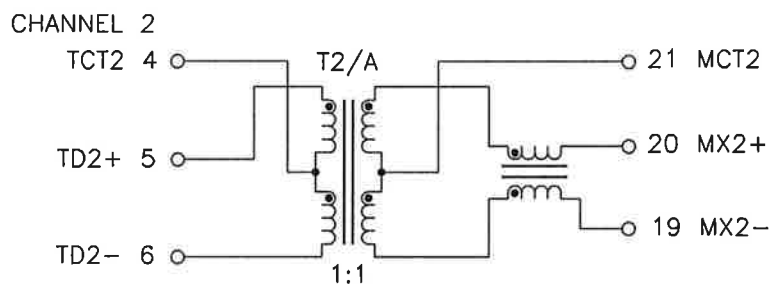
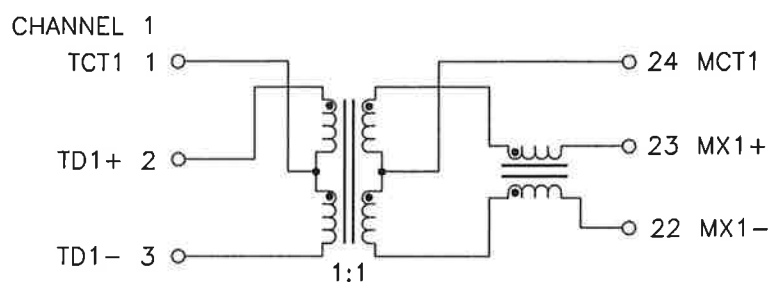
10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



Electrical Schematic

1000B-5002F/X



ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

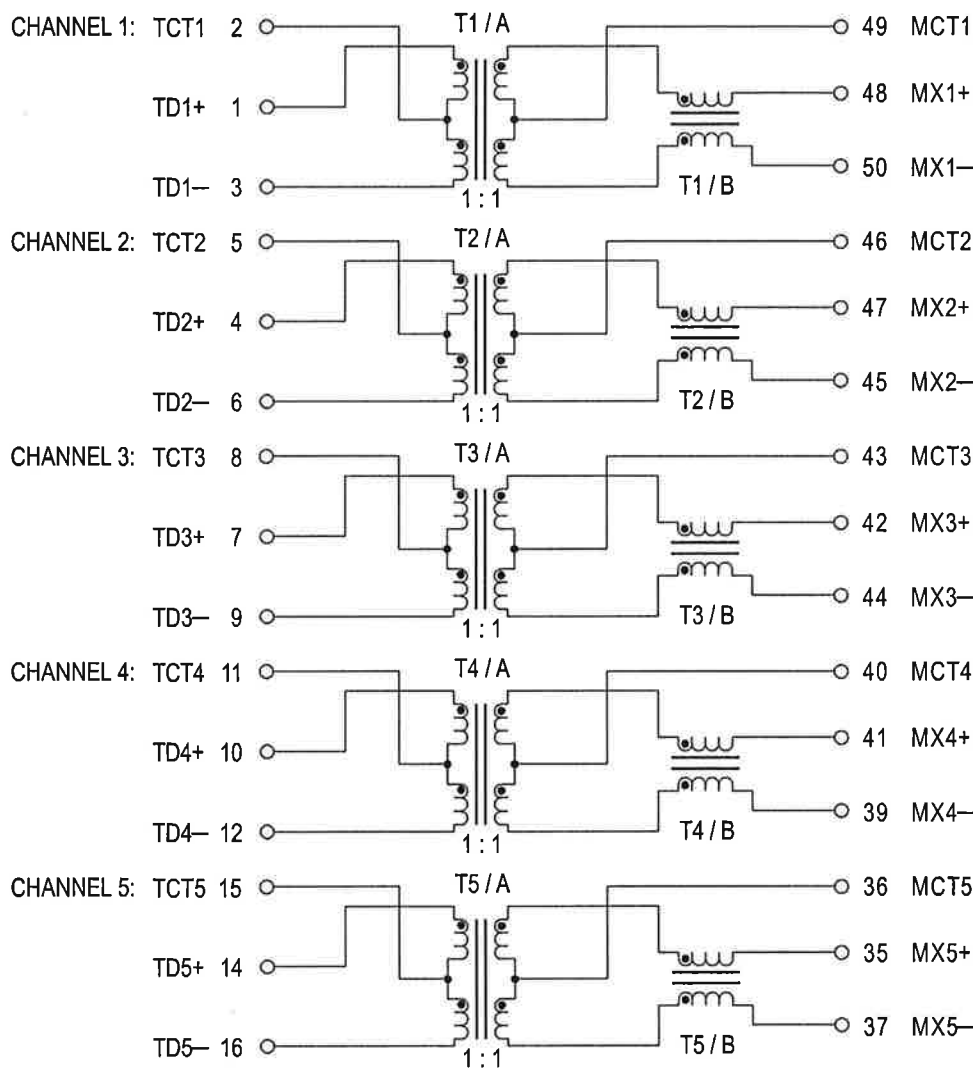
10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade

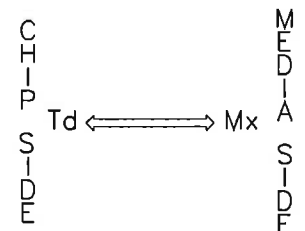


Electrical Schematic

1000B-5003F/X



LEGEND

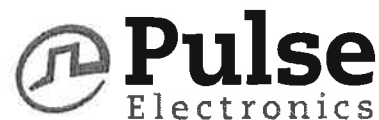


ALL CHANNELS ARE
IN PHASE BETWEEN
INPUT AND OUTPUT

Continued on next page.

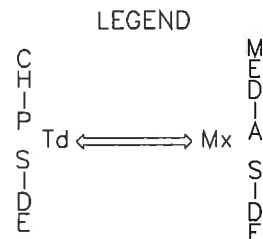
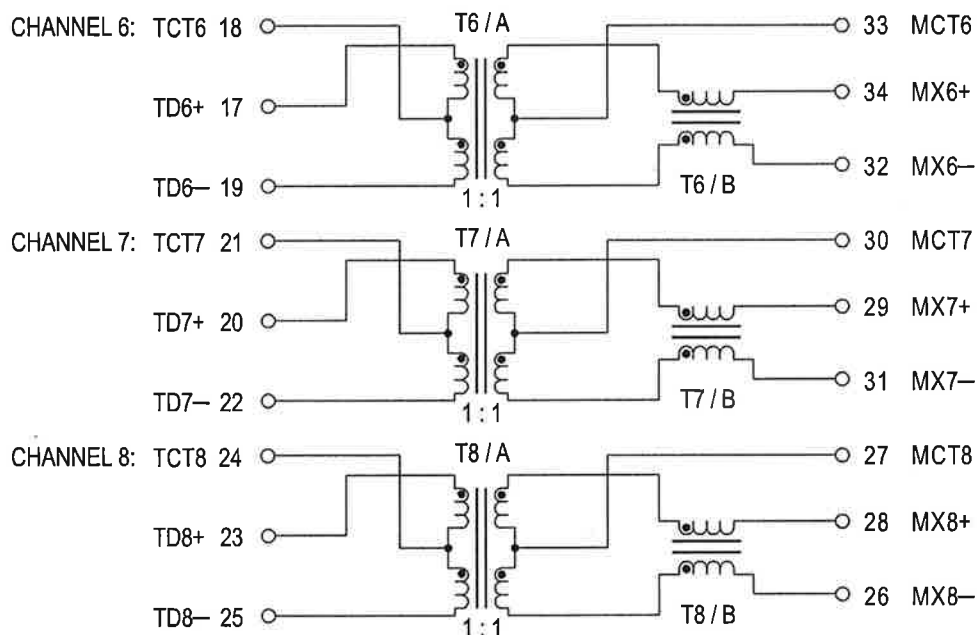
10/100/1000BASE-T SINGLE & DUAL-PORT TRANSFORMER MODULES

Military / Aerospace Grade



Electrical Schematic

1000B-5003F/X (cont.)



ALL CHANNELS ARE IN PHASE BETWEEN INPUT AND OUTPUT

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