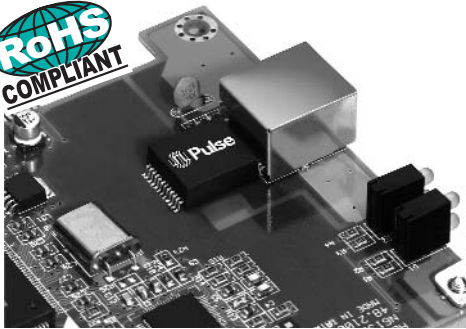


1000BASE-T MAGNETICS MODULES

Designed to Support 1:1 Turns

Ratio Transceivers



- For RoHS part add suffix **NL**⁷
- RoHS “NL” peak solder rating 260°C, non-RoHS peak solder rating 235°C
- Designed for long haul Gigabit Ethernet (10/100/1000BASE-T) applications
- H5008/9 designed to fit behind 1x1 RJ45 connector
- Cable interface for isolation and low common mode emissions
- Meets IEEE 802.3 specification

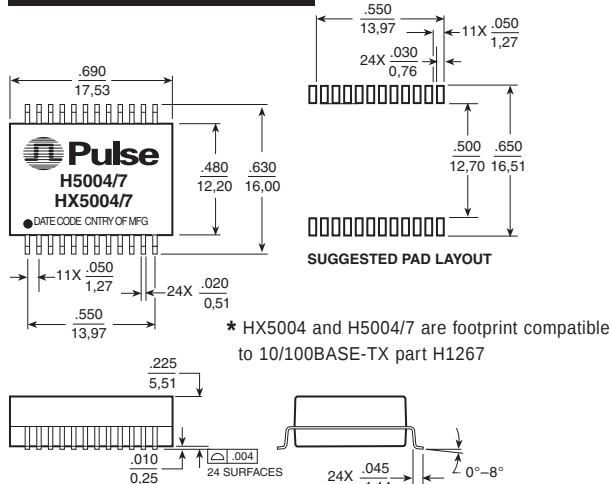
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part # Number	RoHS ⁷	Number of Ports	Insertion Loss (dB MAX)	Return Loss (dB MIN)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
			1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	100 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H5004 ¹	5, 6c	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
HX5004 ^{1, 2}	5, 6c	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5007 ^{1, 3}	NL ^{6d}	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5008	5, 6c	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
HX5008 ²	5, 6a	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5009	5, 6a	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5012 ³	NL ^{6a}	2	1.4	-16	-14.4	-13.1	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5014	5, 6a	2	1.4	-16	-14.4	-13.1	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
HX5014 ²	5, 6a	2	1.4	-16	-14.4	-13.1	-12	-10	-45	-40	-35	-43.5	-37.5	-33	1500
H5015	5, 6a	1	1	-18	-18	-16	-12	-10	-43	-37	-33	-45	-40	-35	1500
H5020	NL ^{6c}	2	1	-18	-14.4	-13.1	-12	-10	-40	-35	-30	-40	-35	-30	1500
HX5020 ²	5, 6c	2	1	-18	-14.4	-13.1	-12	-10	-40	-35	-30	-40	-35	-30	1500

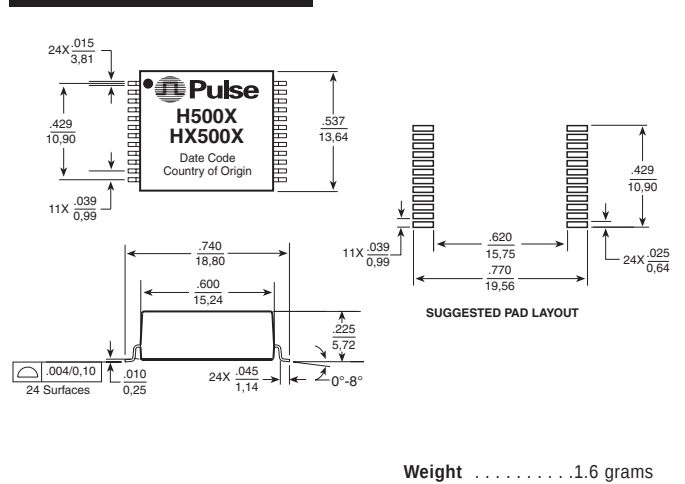
- Footprint compatible product to H1267
- HX: Extended temperature version -40°C to +85°C
- Extended temperature part not available, select HX5004 or HX5014
- For Tape & Reel packaging, add a “T” suffix at the end of the part number when ordering. e.g. H5007T
- Contact Pulse for RoHS compliant part availability
- MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4
- Add suffix **NL** for RoHS compliant parts, e.g. H5007 changes to H5007NL or H5007NLT (for Tape and Reel)

Mechanicals

H5004, HX5004, H5007*



H5008, HX5008, H5009



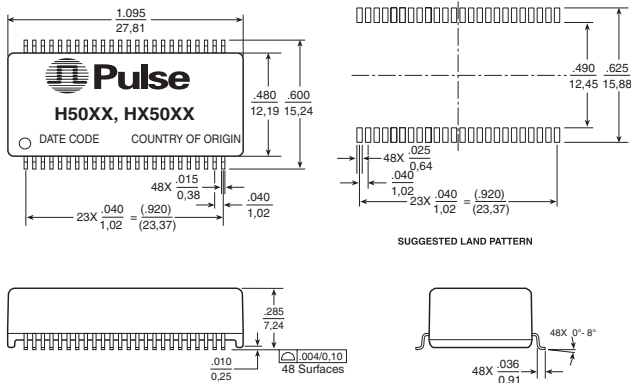
1000BASE-T MAGNETICS MODULES

Designed to Support 1:1 Turns Ratio Transceivers



Mechanicals (continued)

H5012, H5014, HX5014

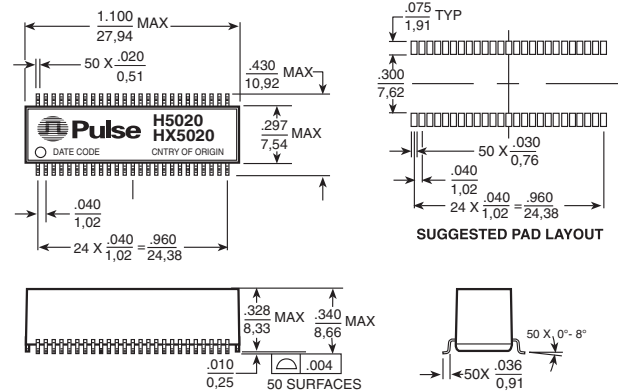


Weight 4.0 grams
Tape & Reel250/reel
Tube15/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

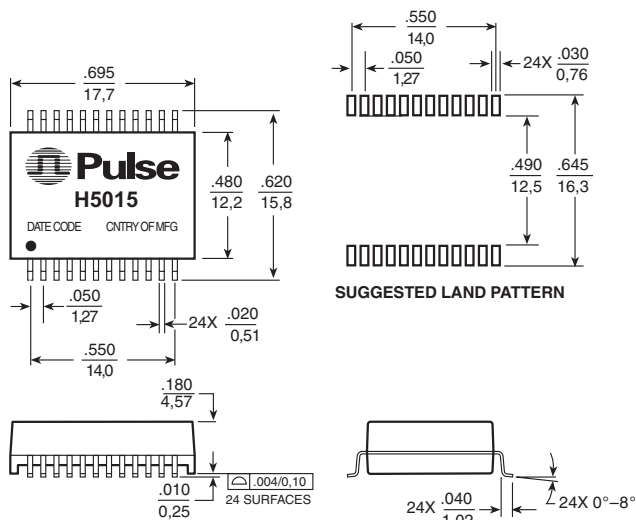
H5020, HX5020



Weight 1.6 grams
Tape & Reel250/reel
Tube15/tube

Mechanicals (continued)

H5015



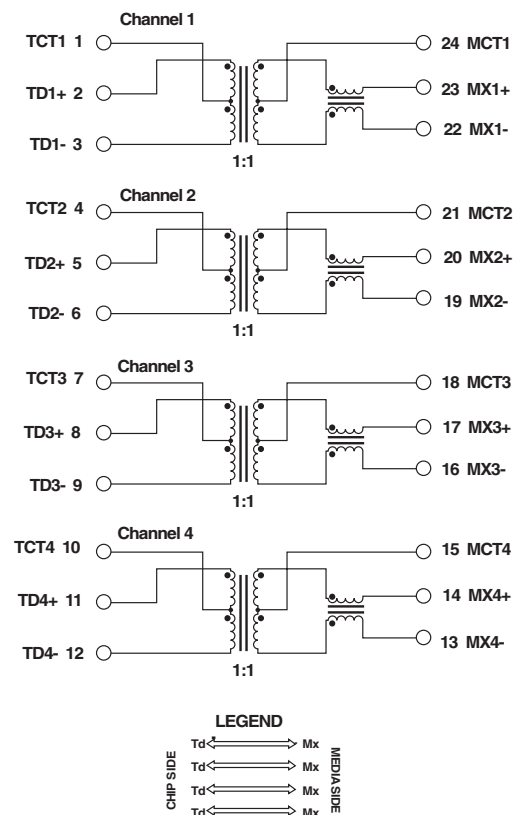
Weight 1.5 grams
Tape & Reel400/reel

Dimensions: $\frac{\text{Inches}}{\text{mm}}$

Unless otherwise specified, all tolerances are $\pm \frac{.005}{0.13}$

Schematics

H5004, HX5004, H5009



LEGEND

CHIP SIDE
Td
Td
Td
Td
MEDIA SIDE
Mx
Mx
Mx
Mx

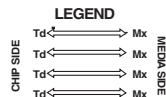
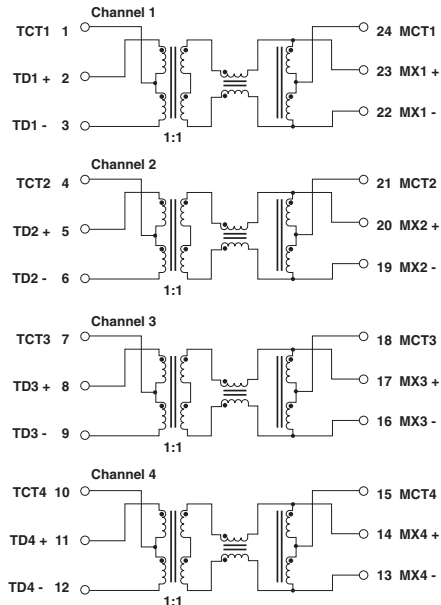
1000BASE-T MAGNETICS MODULES

Designed to Support 1:1 Turns Ratio Transceivers



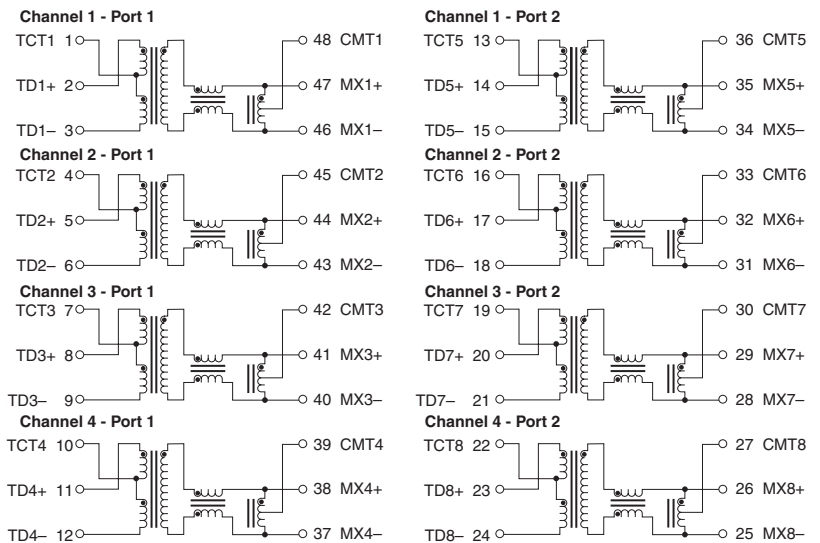
Schematics (continued)

H5007*, H5008, HX5008, H5015



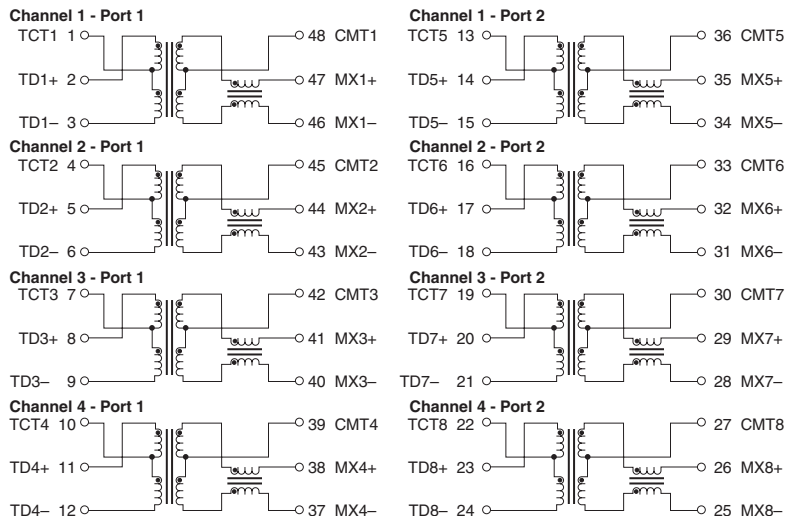
* Extended temperature part for H5007 (HX5007) is not available. Select HX5004.

H5012 *



* Extended temperature part for H5012 is not available. Select HX5014.

H5014, HX5014



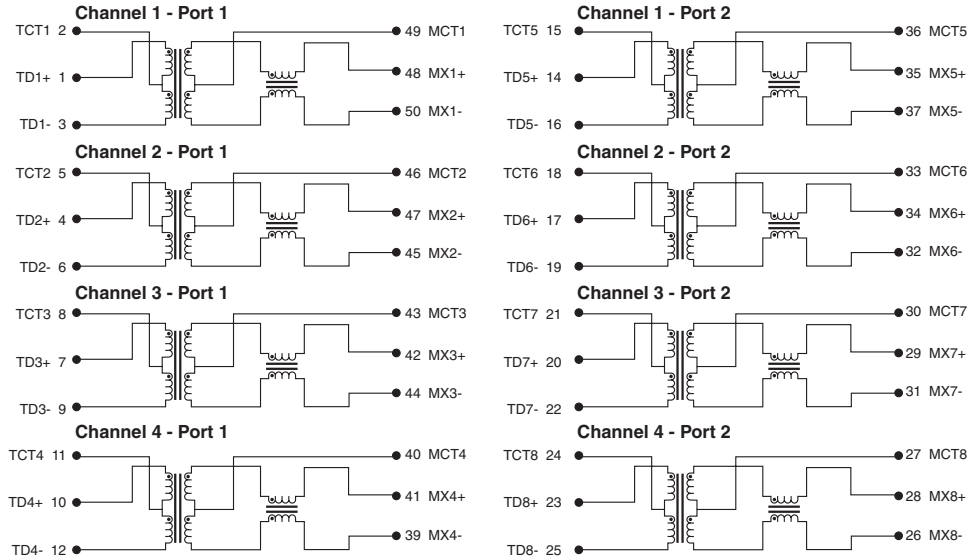
1000BASE-T MAGNETICS MODULES

Designed to Support 1:1 Turns
Ratio Transceivers



Schematics (continued)

H5020, HX5020



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