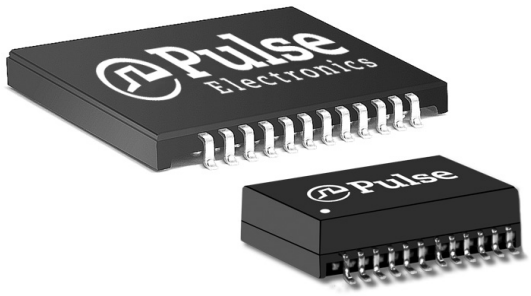
1000Base-T Low Profile Magnetics Module

Designed to Support 1:1 Turns Ratios Receivers



- *RoHS-6 peak reflow temperature rating 245°C*
- *Low profile package for mobile computer applications*
- *Compliant with IEEE 802.3ab standard*

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

Part Number[1]	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100Ω)		Differential to Common Mode Rejection (dB MIN)	Crosstalk (dB MIN)	Hipot (Vrms MIN)
	1-100 MHz	1-40 MHz	40-100 MHz	30-100 MHz	30-100 MHz	
H5019NL	-1.0	-18	-12 +20*LOG10 (f/80)	-43 +22*LOG10 (f/30)	-55 +24*LOG10 (f/10)	1500
H5019BNL	-1.0	-18	-12 +20*LOG10 (f/80)	-43 +22*LOG10 (f/30)	-55 +24*LOG10 (f/10)	1500
HX5019BNL[3]	-1.0	-18	-12 +20*LOG10 (f/80)	-43 +22*LOG10 (f/30)	-55 +24*LOG10 (f/10)	1500
HX5180NL[3]	-1.0	-18	-12 +20*LOG10 (f/80)	-43 +22*LOG10 (f/30)	-55 +24*LOG10 (f/10)	1500

Notes:

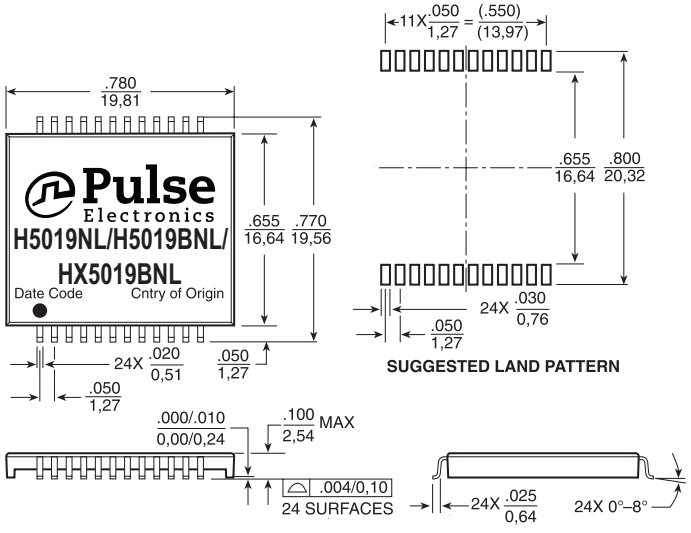
1. For Tape & Reel packaging, add a "**T**" suffix at the end of the part number, e.g. H5019NL**T**.

2. MSL: Moisture Sensitivity Level = 1

3. Extended Temperature: -40˚C to +85˚C

Mechanicals

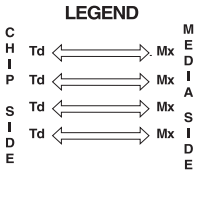
H5019NL/H5019BNL/HX5019BNL



Weight .....1.4 grams
Tape & Reel 700
Tube 25

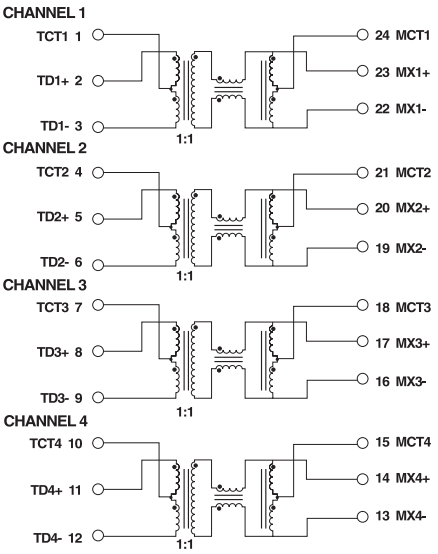
Dimensions: Inches / mm

Unless otherwise specified, all tolerances are ± .010 / 0,25



Schematic

H5019NL

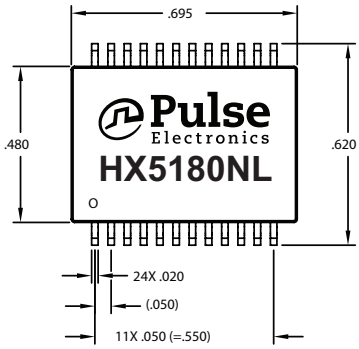


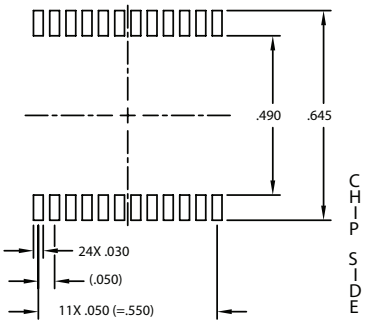
1000Base-T Low Profile Magnetics Module

Designed to Support 1:1 Turns Ratios Receivers

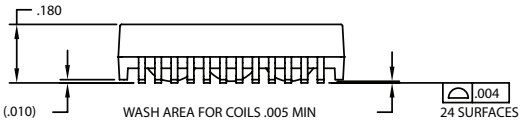
Mechanicals

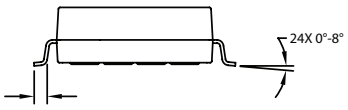
HX5180NL





SUGGESTED LAND PATTERN



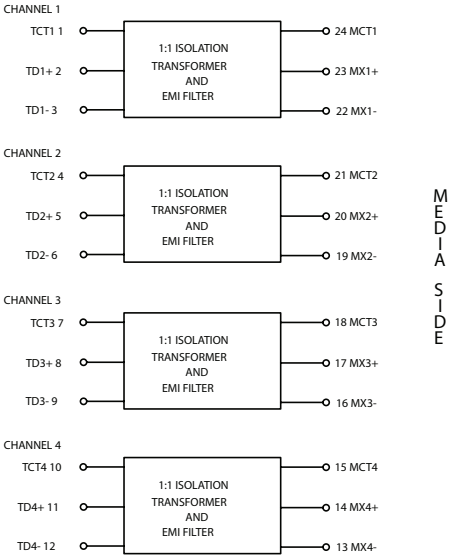


UNLESS OTHERWISE SPECIFIED, ALL DIMENSIONS ARE IN INCHES
TOLERANCES ARE:

DECIMALS	ANGLES
.XX ±.01	± 1°
.XXX ±.005	

Schematic

H501BNL/HX5019BNL/HX5180NL



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