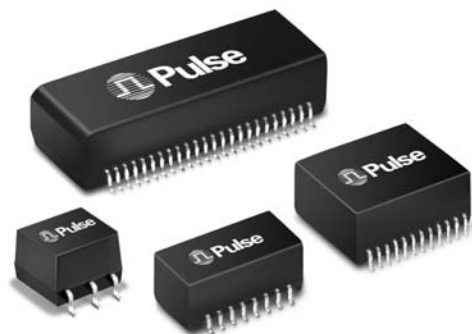


POWER OVER ETHERNET (PoE) MAGNETICS

10/100BASE-TX VoIP Magnetics Modules



- IEEE 802.3af/ANSI X3.263 compliant performance
- Suitable for End-span and Mid-span PoE applications
- 350 mA current capability
- Designed for IP phone or switch applications
- Compact footprint
- Some models offer AutoMDIX capability

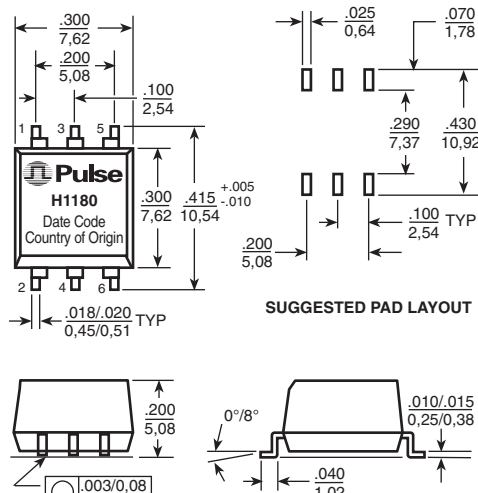
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	Ports	Insertion Loss (dB MAX)	Return Loss (dB MIN @ 100 Ω)					Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)	DC Resistance Balance ≤ (%)
			1-100 MHz	1-30 MHz	40 MHz	50 MHz	60-80 MHz	30 MHz	60 MHz	100 MHz	30 MHz	60 MHz	100 MHz		
H1180 ^{1,3}	1	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-45	-40	-35	1500	—
H1187 ^{1,3}	1	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-45	-40	-35	1500	—
H1197 ^{1,3}	1	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-45	-40	-35	1500	—
H2019 ¹	1	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-45	-40	-35	1500	3.5
H2005A	2	-1.2	-16	-14	-13	-12	-12	-50	-43	-35	-43	-37	-33	1500	3.5
H2006A ¹	2	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-43	-37	-31	1500	3.5
H2008	2	-1.2	-16	-14	-13	-12	-12	-40	-35	-30	-43	-37	-33	1500	3.5
H2009 ¹	2	-1.1	-16	-14	-13	-12	-12	-43	-37	-33	-43	-37	-33	1500	3.5
H2014	4	-1.2	-16	-14	-13	-12	-12	-43	-37	-33	-45	-40	-35	1500	3.5
HX2019 ^{1,2}	1	-1.4	-18	-14	-13	-13	-12	—	—	—	-45	-40	-35	1500	3.5

1. Suitable for Auto MDIX applications
2. Extended temperature (-40°C to +85°C)
3. Recommended parts for mid-span PoE applications

Mechanicals

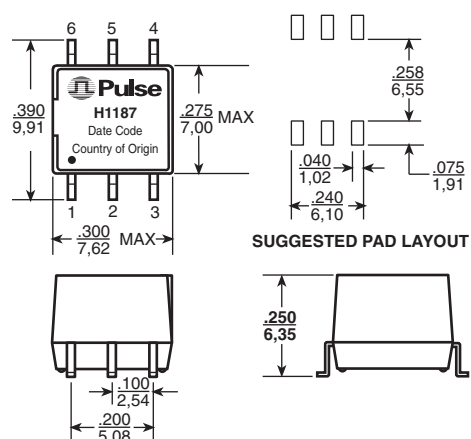
H1180



Weight 0.6 grams
Tape & Reel 500/reel
Tube65/tube

Dimensions: $\frac{\text{Inches}}{\text{mm}}$ Unless otherwise specified, all tolerances are $\pm \frac{.010}{.025}$

H1187



Weight 0.6 grams
Tape & Reel 500/reel
Tube 70/tube

POWER OVER ETHERNET (PoE) MAGNETICS

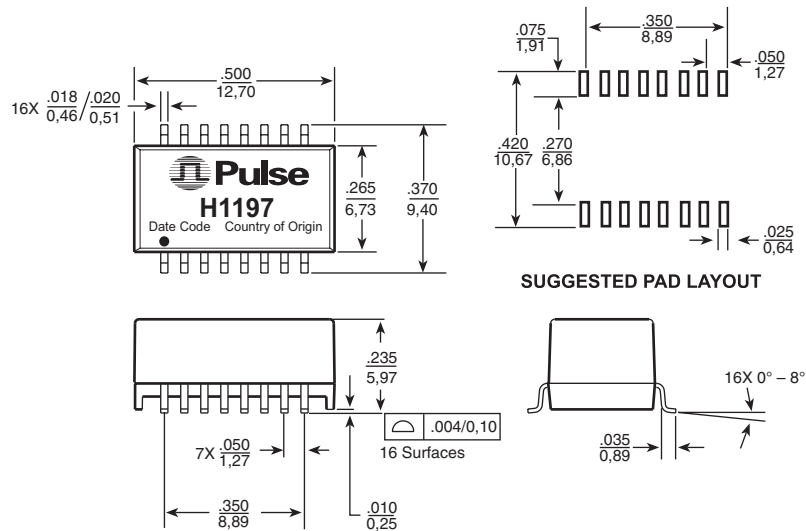
10/100BASE-TX VoIP Magnetics Modules



Pulse
A TECHNITROL COMPANY

Mechanicals

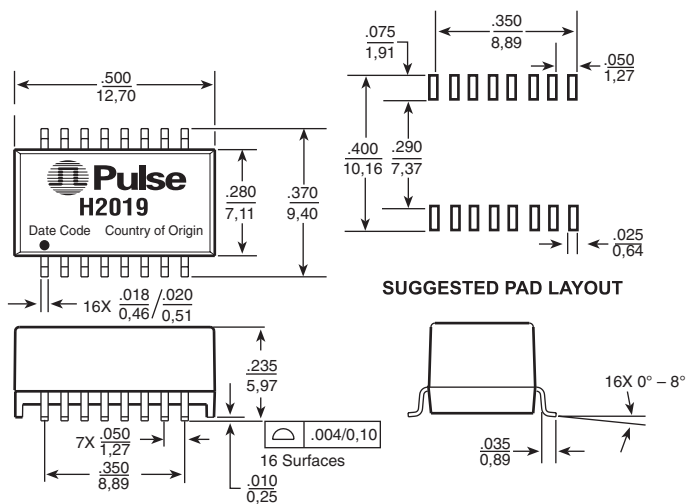
H1197



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

Weight 2.8 grams
Tape & Reel 600/reel
Tube 45/tube

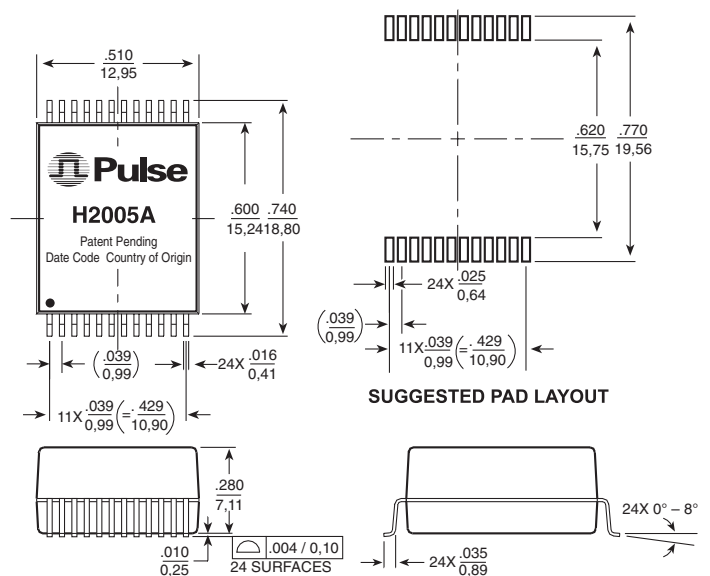
H2019, HX2019



Weight 1.0 grams
Tape & Reel 600/reel
Tube 45/tube

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

H2005A



Weight 2.7 grams
Tape & Reel 300/reel
Tube 25/tube

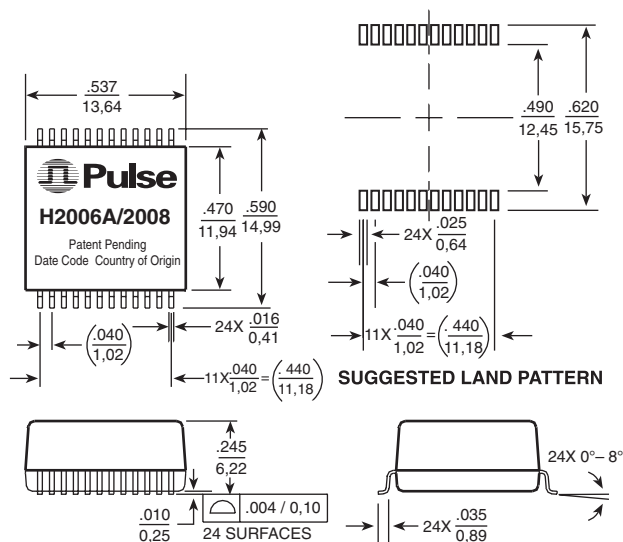
POWER OVER ETHERNET (PoE) MAGNETICS

10/100BASE-TX VoIP Magnetics Modules

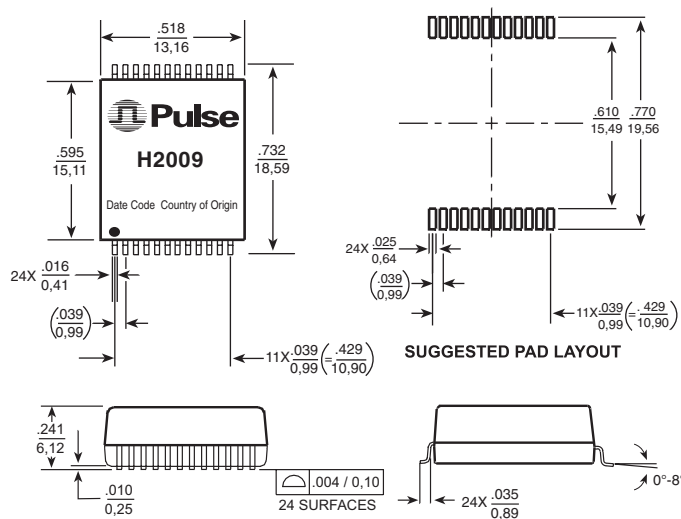


Mechanicals *(continued)*

H2006A, H2008



H2009

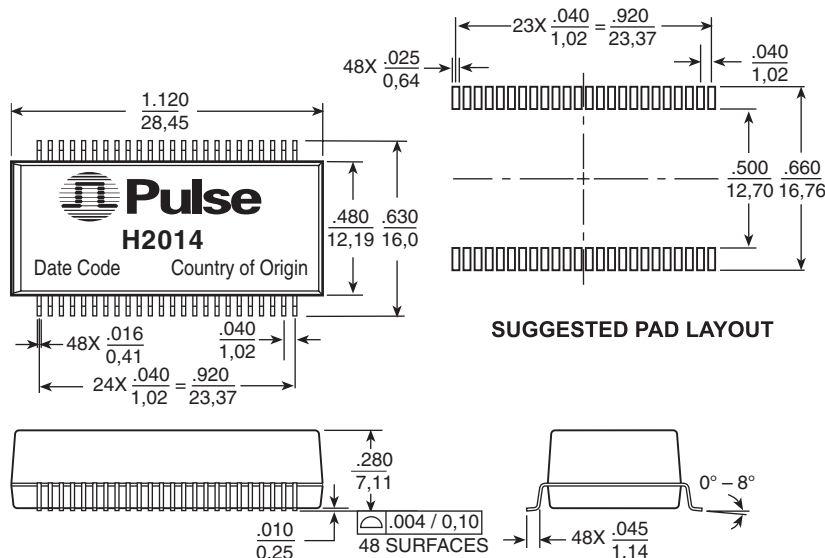


Weight 2.4 grams
Tape & Reel 350/reel
Tube 35/tube

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

Weight 1.6 grams
Tape & Reel 300/reel
Tube 35/tube

H2014



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

Weight 5.0 grams
Tape & Reel 250 /reel
Tube 15/tube

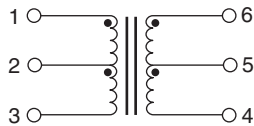
POWER OVER ETHERNET (PoE) MAGNETICS

10/100BASE-TX VoIP Magnetics Modules

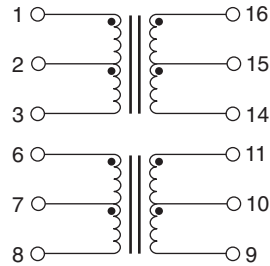


Schematics

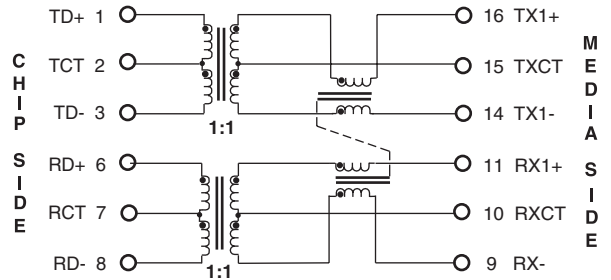
H1180, H1187



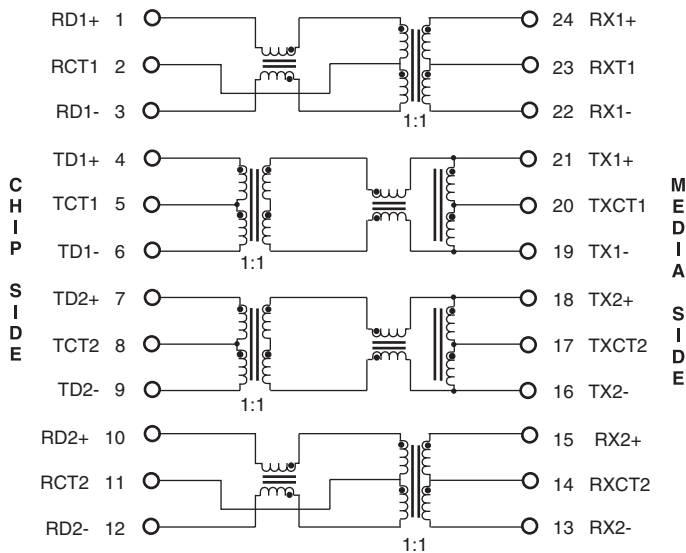
H1197



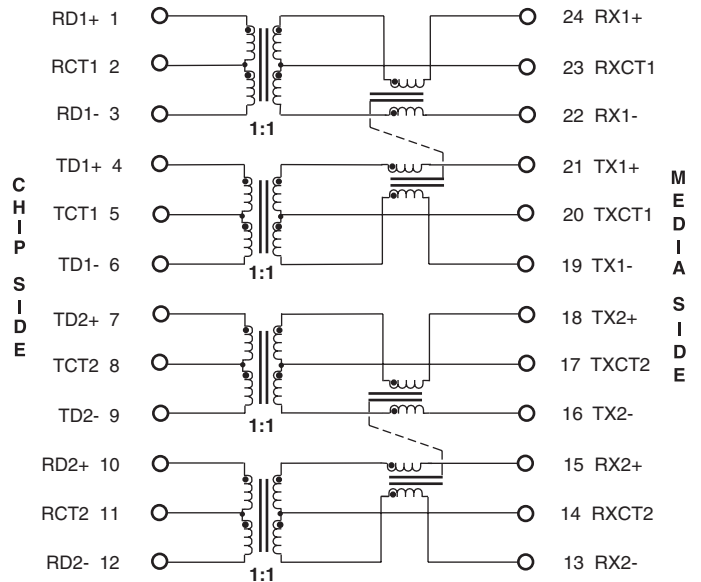
H2019, HX2019



H2005A



H2006A



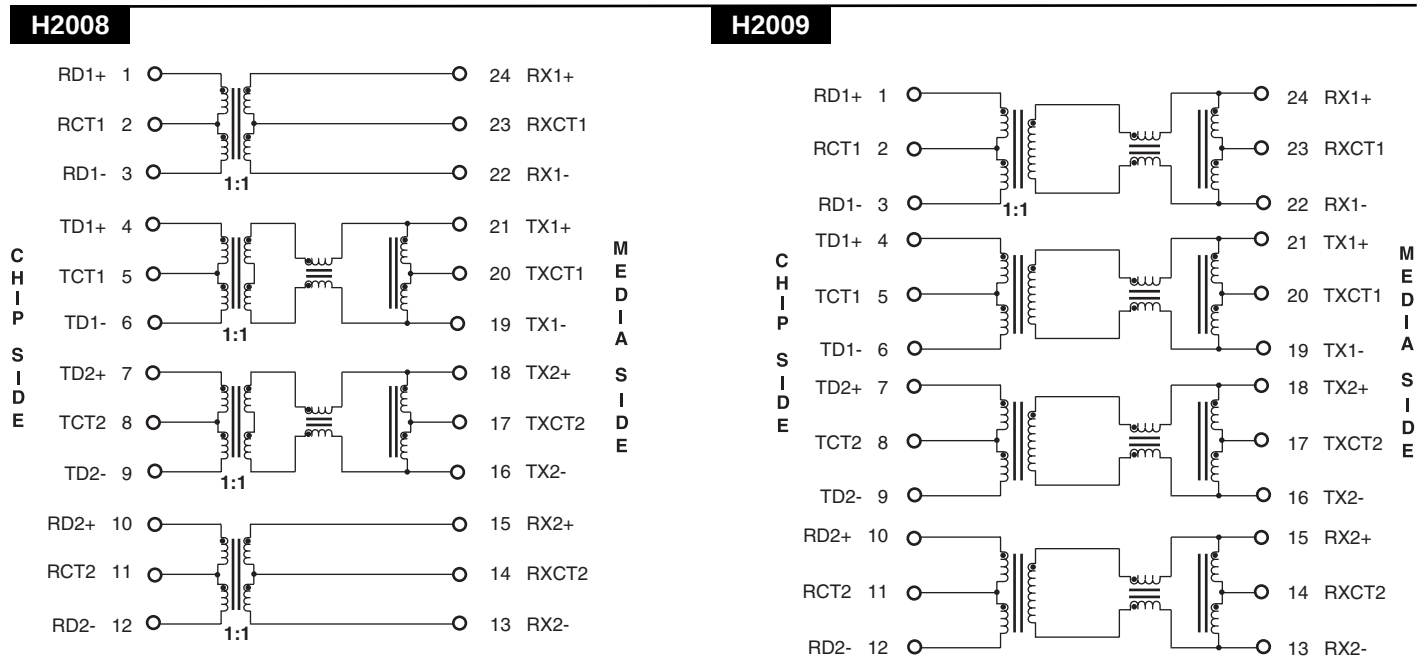
NOTE: The H2006A is suitable for AutoMDIX applications.

POWER OVER ETHERNET (PoE) MAGNETICS

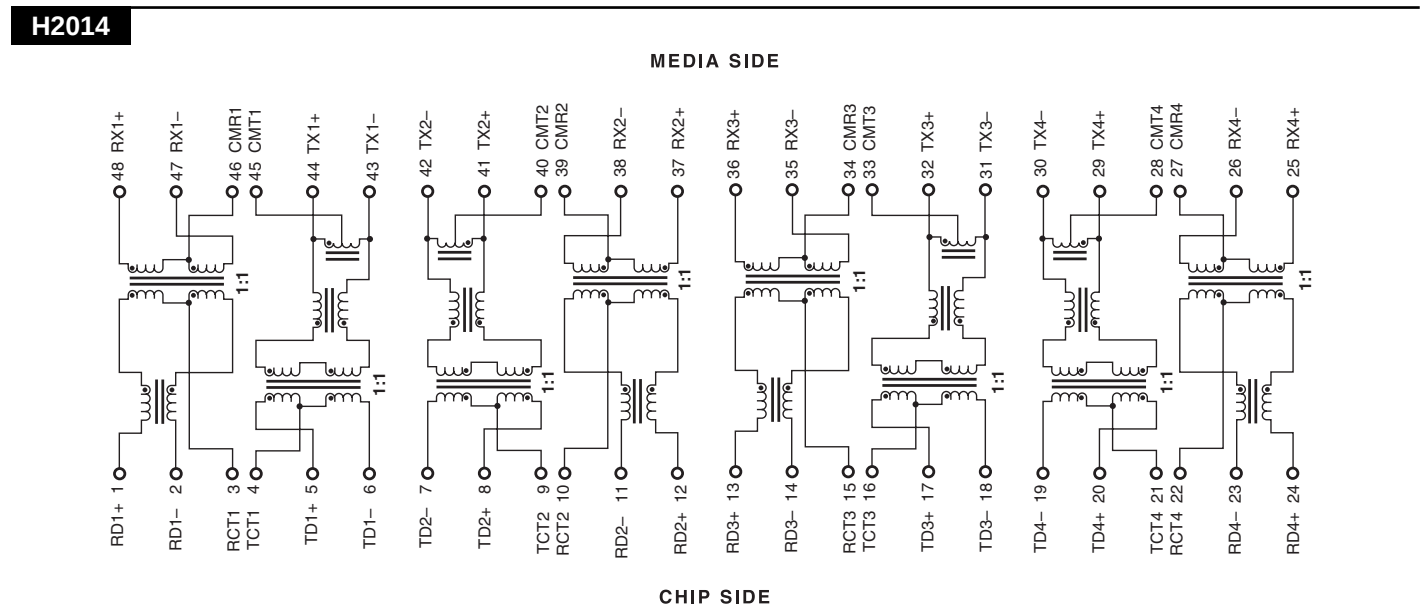
10/100BASE-TX VoIP Magnetics Modules



Schematics (continued)



NOTE: The H2009 is suitable for AutoMDIX applications.



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