

## 10/100BASE-TX VoIP Magnetics Modules



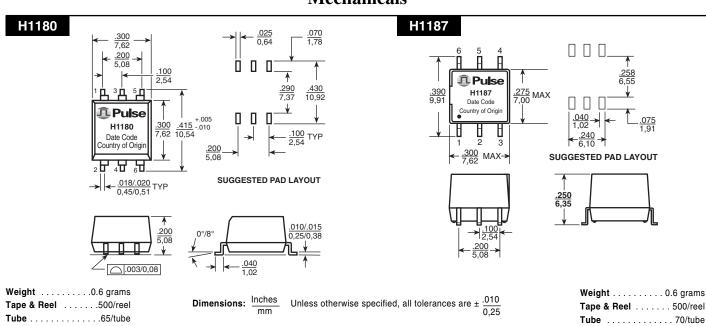
- RoHS-5 peak reflow temperature rating 235°C
- RoHS-6 peak reflow temperature rating 245°C
- IEEE 802.3af/ANSI X3.263 compliant performance
- Designed for IP phone or switch applications

Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C															
RoHS-5 <sup>3</sup> Compliant Part	RoHS-6 <sup>4</sup> Compliant Part	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		
Number	Number		1-100MHz	1-30MHz	40MHz	50MHz	60-80MHz	30MHz	60MHz	100MHz	30MHz	60MHz	100MHz		<u>&lt;</u> (%)
H1180	H1180NL <sup>2c</sup>	1	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1500	_
H1187	H1187NL <sup>4c</sup>	1	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1500	_
H1197	H1197NL 2c	1	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1500	_
H2019	H2019NL <sup>2c</sup>	1	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1500	3.5
H2005A	H2005ANL <sup>2c</sup>	2	-1.2	-16	-14	-13	-12	-50	-43	-35	-43	-37	-33	1500	3.5
H2006A	H2006ANL <sup>2d</sup>	2	-1.2	-16	-14	-13	-12	-43	-37	-33	-43	-37	-31	1500	3.5
H2008	H2008 NL <sup>2d</sup>	2	-1.2	-16	-14	-13	-12	-40	-35	-30	-43	-37	-33	1500	3.5
H2009	H2009NL <sup>2a</sup>	2	-1.1	-16	-14	-13	-12	-43	-37	-33	-43	-37	-33	1500	3.5
H2014	_	4	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1500	3.5
H2017	H2017NL <sup>2c</sup>	4	-1.2	-16	-14	-13	-12	-43	-37	-33	-45	-40	-35	1800	3.5
HX2019 <sup>1</sup>	HX2019NL <sup>1, 2a</sup>	1	-1.4	-16	-14	-13	-12	_	_	_	-45	-40	-35	1500	3.5

- 1. Extended operating temperature (-40°C to +85°C)
- **2.** MSL (Moisture Sensitivity Level): a = 1 b = 2 c = 3 d = 4 e = 5
- 3. RoHS-5: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains lead in applications considered solder).
- 4. RoHS-6: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive. Some internal connections may contain lead in high-temperature solder (solder alloys containing more than 85% lead).

NOTE: When ordering Tape & Reel packaging, add the suffix "T" to the end of the part number. For example: H2008NLT.

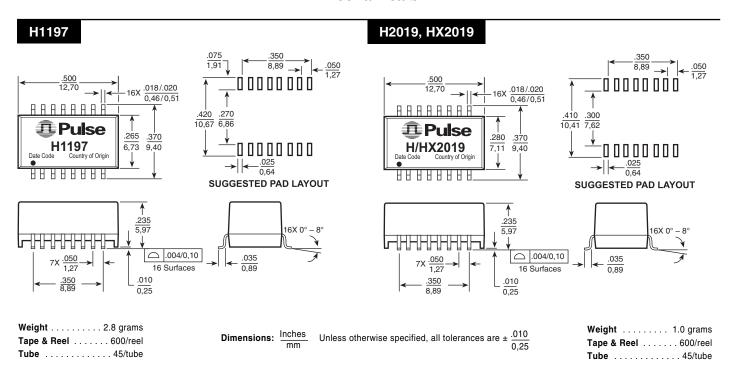
#### **Mechanicals**





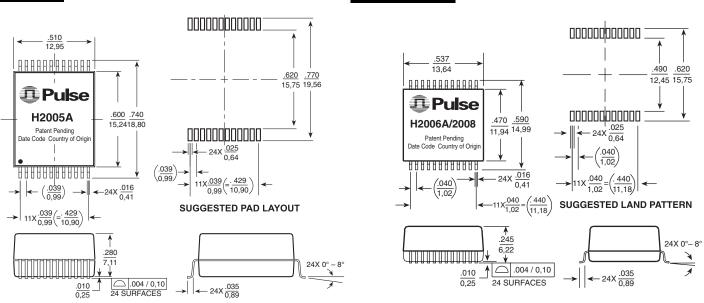
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### **Mechanicals**





### H2006A, H2008



 Weight
 .2.7 grams

 Tape & Reel
 .300/reel

 Tube
 .25/tube

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

 Weight
 2.4 grams

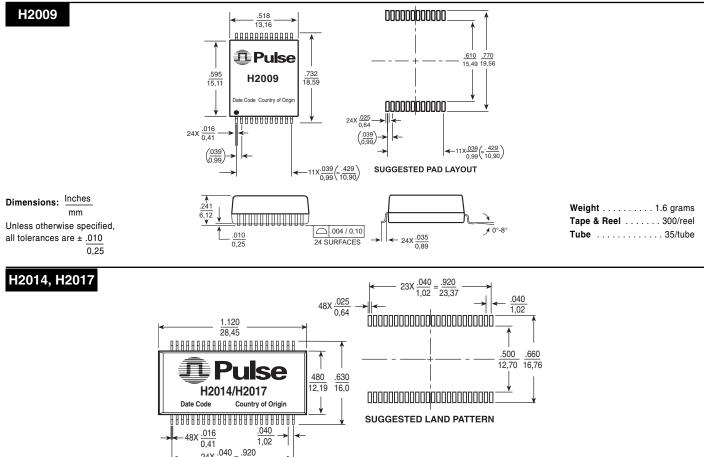
 Tape & Reel
 350/reel

 Tube
 35/tube



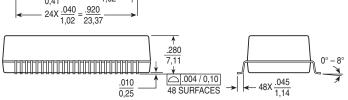
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### Mechanicals (continued)



Dimensions: Inches mm

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

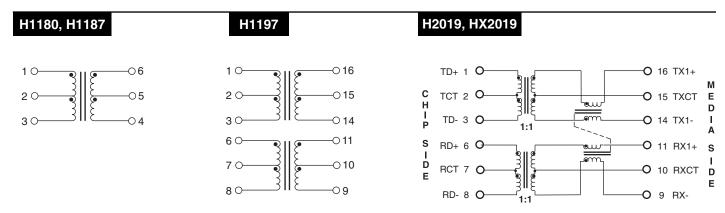


 Weight
 5.0 grams

 Tape & Reel
 250 /reel

 Tube
 15/tube

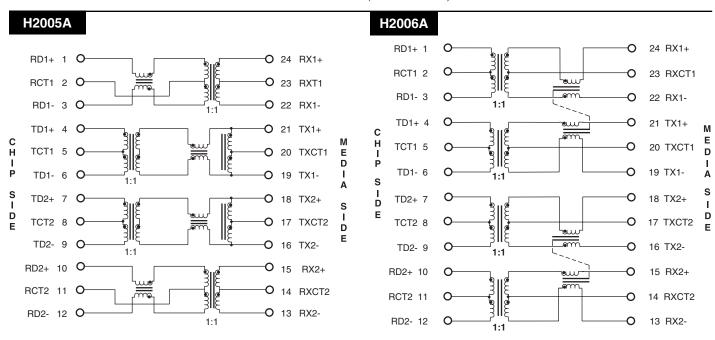
### **Schematics**



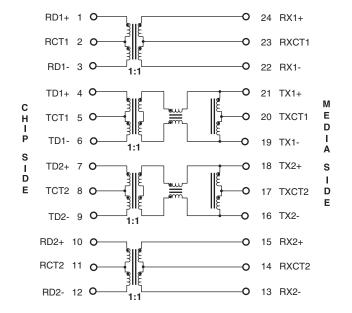


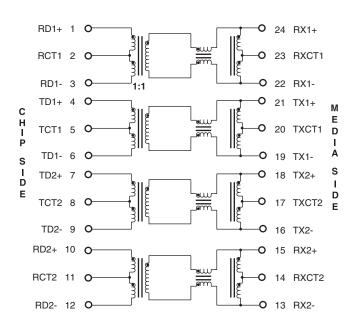
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### **Schematics** (continued)



## H2008

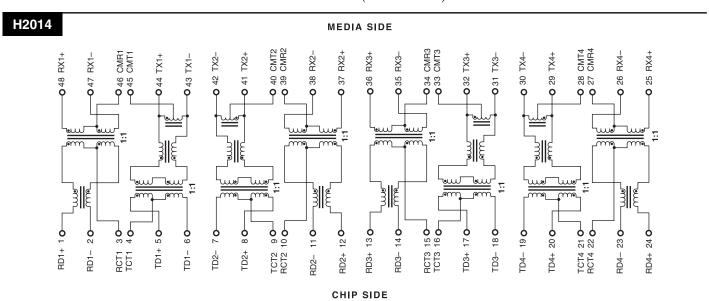


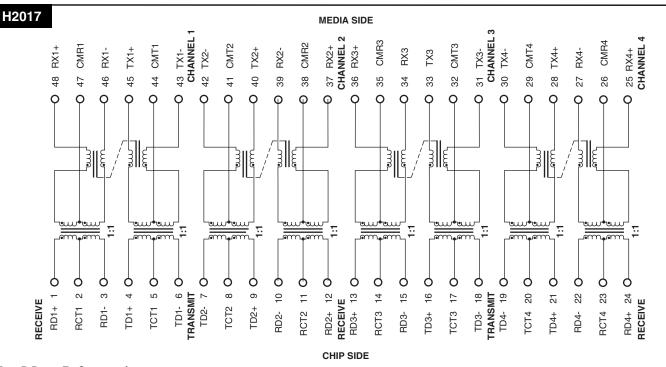




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**Schematics** (continued)





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