

10/100 PC CARD LAN MAGNETICS MODULES



- RoHS-5 peak reflow temperature rating 235°C
- RoHS-6 peak reflow temperature rating 245°C
- Low profile packages from .094" (2,39mm) to .078" (1,98mm) for PC card and cardbus applications

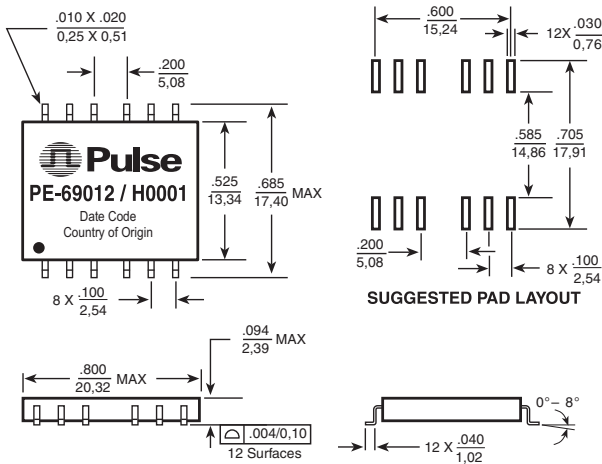
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

RoHS-5 ³ Compliant Part Number	RoHS-6 ⁴ Compliant Part Number	Turns Ratio (±5%)		Insertion Loss (dB MAX)	Return Loss (dB MIN)			Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
		TX	RX		100 kHz-100 MHz	30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	62 MHz	
PE-69012	—	1:1	1:1	-1.3	-18	-13	-11	-40	-35	-30	-40	-40	-35	1500
H0001	—	$\sqrt{2}$:1	1:1	-2.0	-18	-12	-10	-30	-30	-30	-40	-40	-35	1500
H0002	—	1:1	1:1	-1.3	-18	-13	-11	-30	-30	-30	-40	-35	-30	1500
H0009	H0009 NL ^{2a}	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0013	H0013 NL ^{2a}	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0019	H0019NL ^{2a}	1:1	1:1	-0.9	-18	-12	-11	-40	—	-30	-45	-45	-37	1500
H0020	H0020NL ^{2a}	1:1	1:1	-1.0	-16	-12	-12	-42	—	-33	-45	-40	-35	1500
H0022	H0022NL ^{2a}	1:1	1:1	-2.0	-18	-14	-12	-40	-35	-30	-50	-45	-40	1500
H0025	H0025NL ^{2a}	1:1	1:1	-2.0	-18	-12	-12	-40	-35	-30	-45	-45	-37	1500

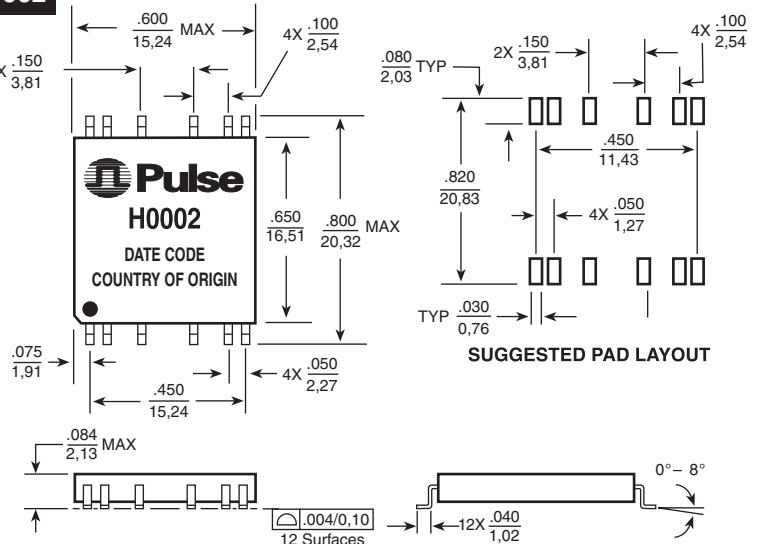
1. Add "T" for Tape & Reel packaging, e.g. PE-69012T.
2. MSL (Moisture Sensitivity Level): a=1, b=2, c=3, d=4, e=5.
3. RoHS-5: Product does not contain 5 out of the 6 banned substances specified in the RoHS directive (product contains lead in applications considered solder).
4. RoHS-6: Product does not 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).

Mechanicals

PE-69012, H0001



H0002



Weight 1.3 grams
Tape & Reel 600/reel
Tube 25/tube

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

Weight 1.2 grams
Tape & Reel 900/reel
Tube 35/tube

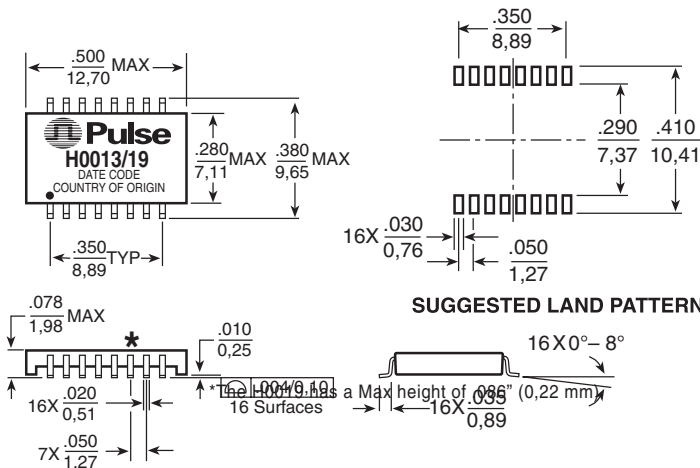
USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 769 85538070 • Taiwan 886 3 4641811

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Mechanicals

H0013, H0019*

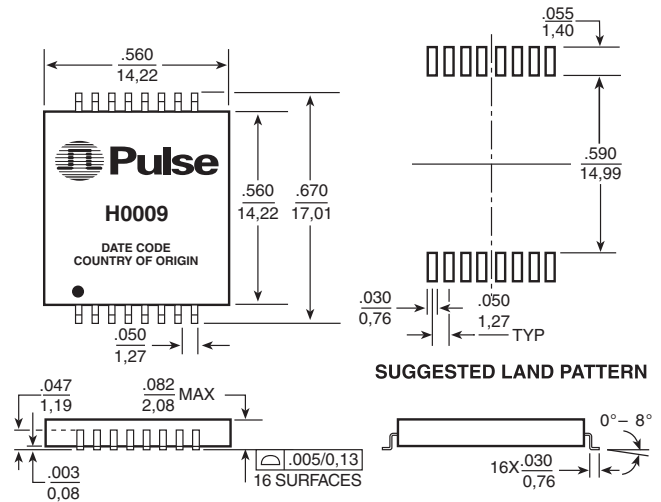


Weight3 grams
Tape & Reel2000/reel
Tube40/tube

Dimensions: Inches
mm

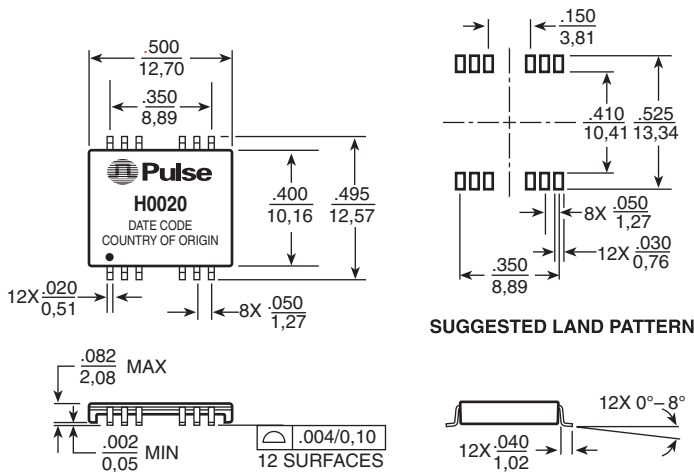
Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H0009



Weight1.3 grams
Tape & Reel900/reel
Tube25/tube

H0020

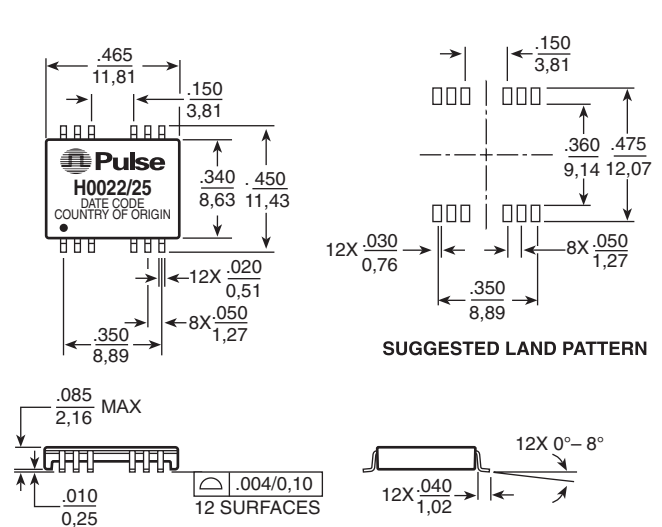


Weight4 grams
Tape & Reel500/reel
Tube40/tube

Dimensions: Inches
mm

Unless otherwise specified, all tolerances are $\pm \frac{.010}{0,25}$

H0022, H0025



Weight355 grams
Tape & Reel1000/reel
Tube40/tube

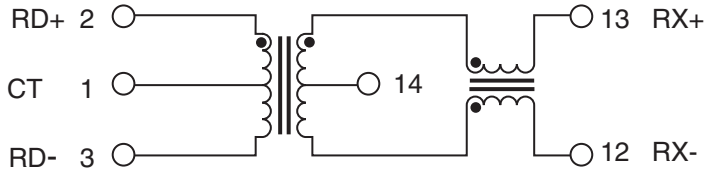
10/100 PC CARD LAN MAGNETICS MODULES



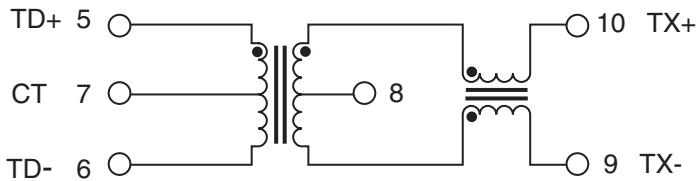
Schematics

PE-69012, H0001

RECEIVE



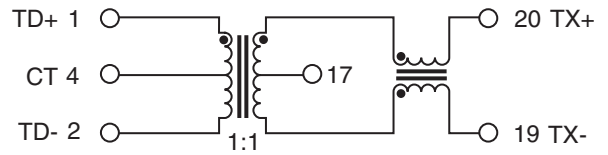
TRANSMIT



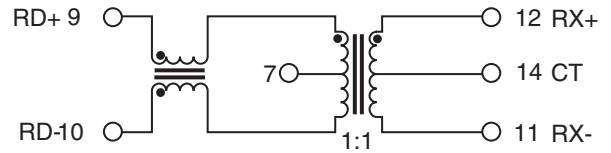
NOTE: Transmit and receive channels are interchangeable on the PE-69012.

H0002

TRANSMIT

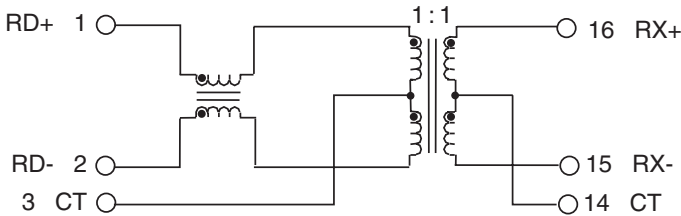


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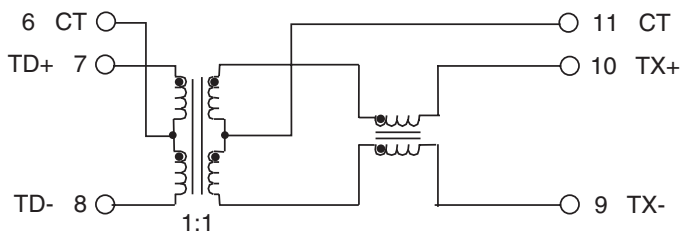


**H0009, H0013,
H0019, H0025**

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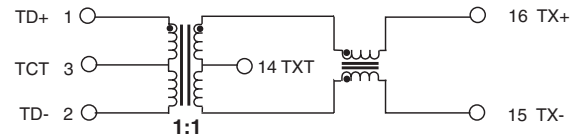


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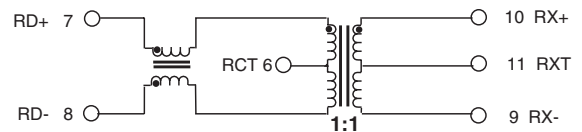


H0020

TRANSMIT

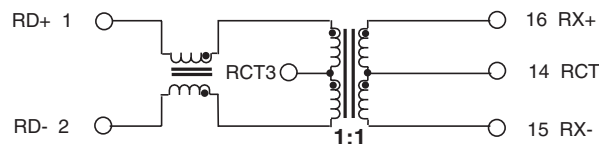


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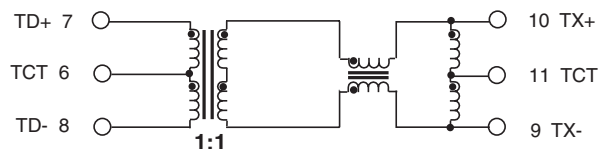


H0022

RECEIVE



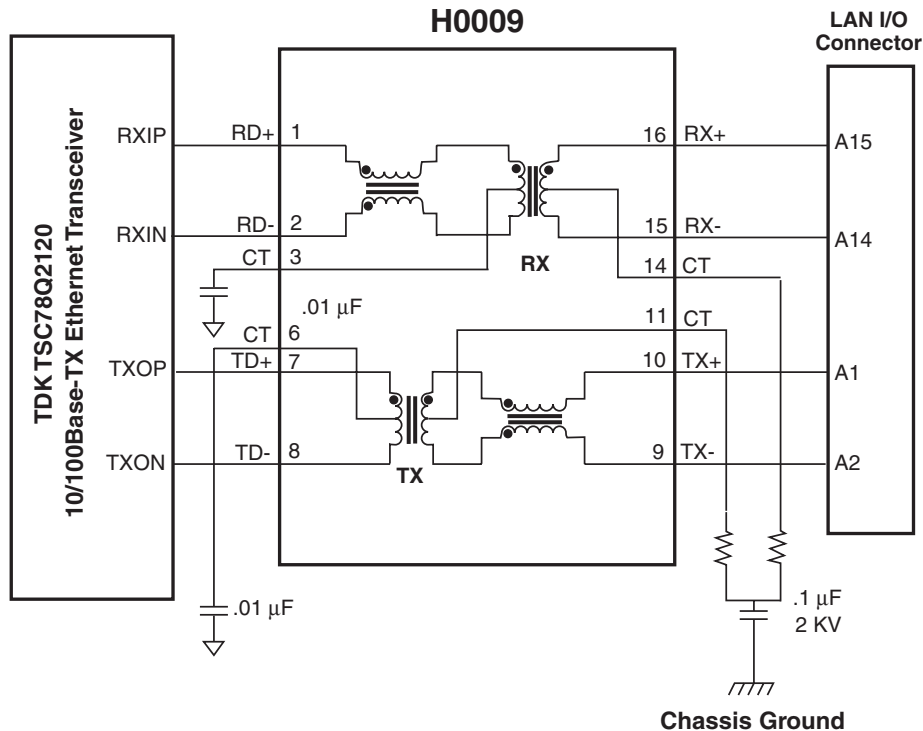
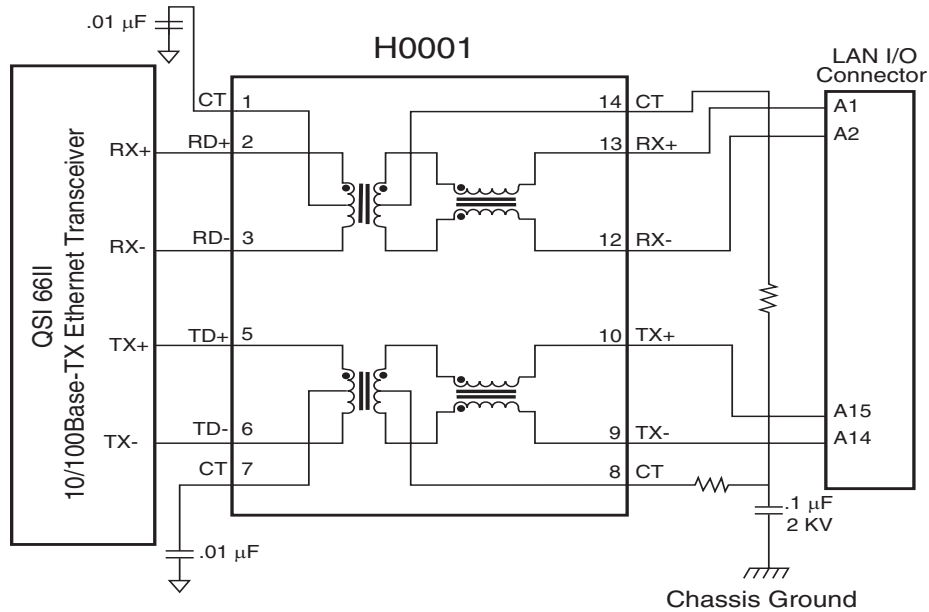
TRANSMIT



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Application Circuits



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