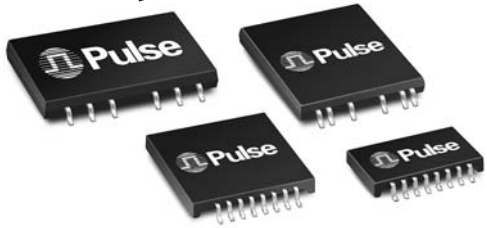


10/100 PC CARD LAN MAGNETICS MODULES



- For RoHS part add suffix **NL²**
- Peak solder temperature rating per Tabel 5-2 in IPC/JEDEC J-STD-020C
- Low profile packages from .094" (2,39mm) to .078" (1,98mm) for PC card and cardbus applications

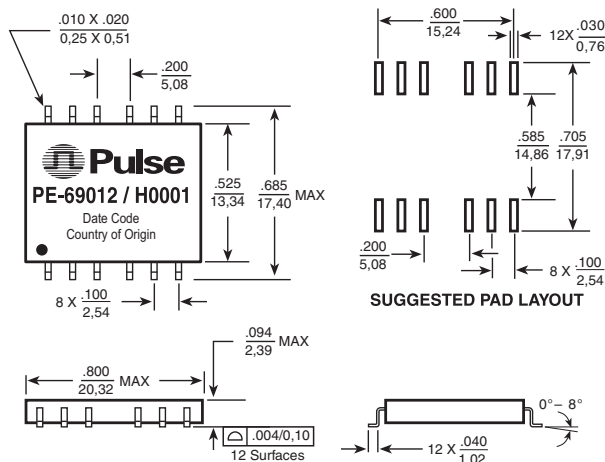
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part ¹ Number	RoHS ²	Turns Ratio (±5%)		Insertion Loss 100 kHz-100 MHz (dB MAX)	Return Loss (dB MIN)			Differential to Common Mode Rejection (dB MIN)			Crosstalk (dB MIN)			Hipot (Vrms MIN)
		TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	62 MHz	100 MHz	
PE-69012	not available	1:1	1:1	-1.3	-18	-13	-11	-40	-35	-30	-40	-40	-35	1500
H0001	not available	√2:1	1:1	-2.0	-18	-12	-10	-30	-30	-30	-40	-40	-35	1500
H0002	not available	1:1	1:1	-1.3	-18	-13	-11	-30	-30	-30	-40	-35	-30	1500
H0009	NL ^{4a}	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0013	NL ^{4a}	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0019	NL ^{4a}	1:1	1:1	-0.9	-18	-12	-11	-40	—	-30	-45	-45	-37	1500
H0020	3, 4a	1:1	1:1	-1.0	-16	-12	-12	-42	—	-33	-45	-40	-35	1500
H0022	NL ^{4a}	1:1	1:1	-2.0	-18	-14	-12	-40	-35	-30	-50	-45	-40	1500
H0025	3, 4a	1:1	1:1	-2.0	-18	-12	-12	-40	-35	-30	-45	-45	-37	1500

- Add "T" for Tape & Reel packaging, e.g. PE-69012T.
- Add suffix "NL" to RoHS compliant parts, e.g. H009 changes to H009NL or H009NLT (for Tape & Reel). NA = Not Available.
- Contact Pulse for RoHS compliant availability.
- MSL (Moisture Sensitivity Level): a=1, b=2, c=3, d=4, e=5.

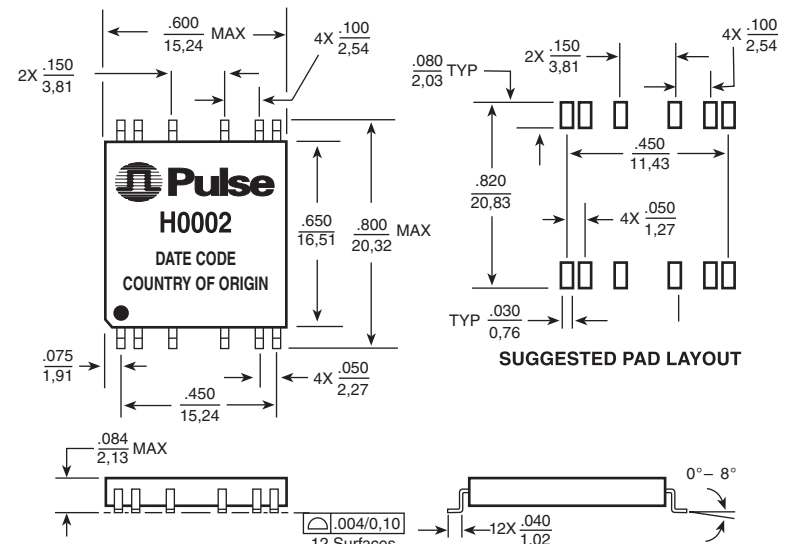
Mechanicals

PE-69012, H0001



Weight 1.3 grams
Tape & Reel600/reel
Tube25/tube

H0002



Weight 1.2 grams
Tape & Reel900/reel
Tube35/tube

Dimensions: Inches mm Unless otherwise specified, all tolerances are ± .010 / 0,25

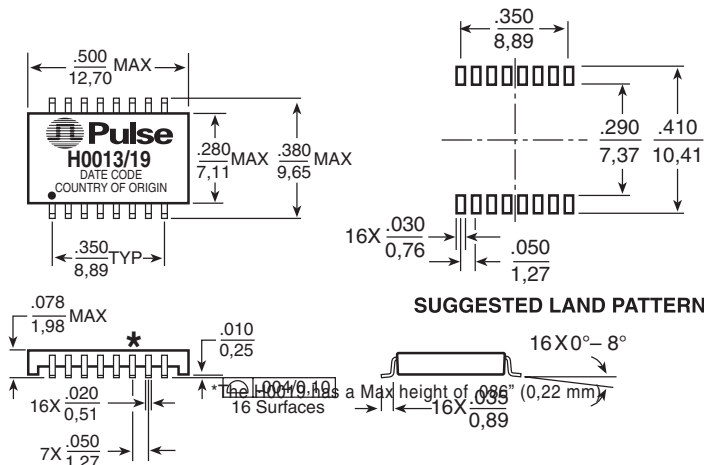
USA 858 674 8100 • UK 44 1483 401 700 • France 33 3 84 35 04 04 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 769 5538070 • Taiwan 886 2 26980228

10/100 PC CARD LAN MAGNETICS MODULES



Mechanicals

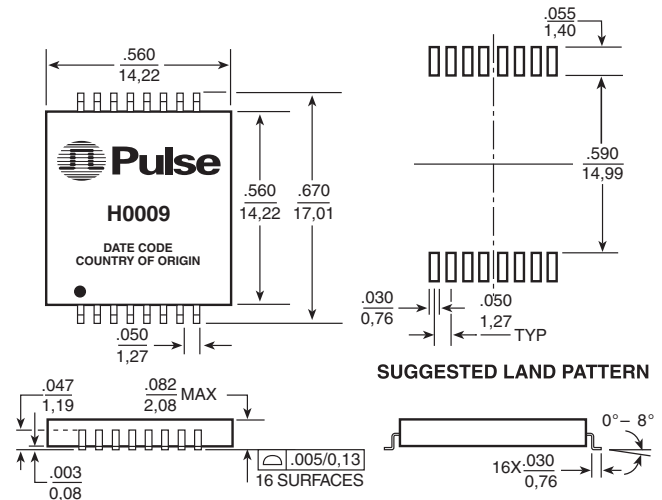
H0013, H0019*



Weight3 grams
Tape & Reel2000/reel
Tube40/tube

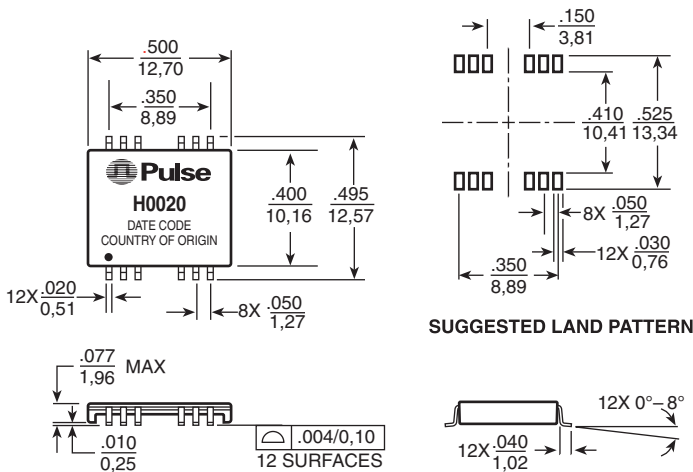
Dimensions: Inches
mm
Unless otherwise specified, all tolerances are $\pm .010$
 $0,25$

H0009



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

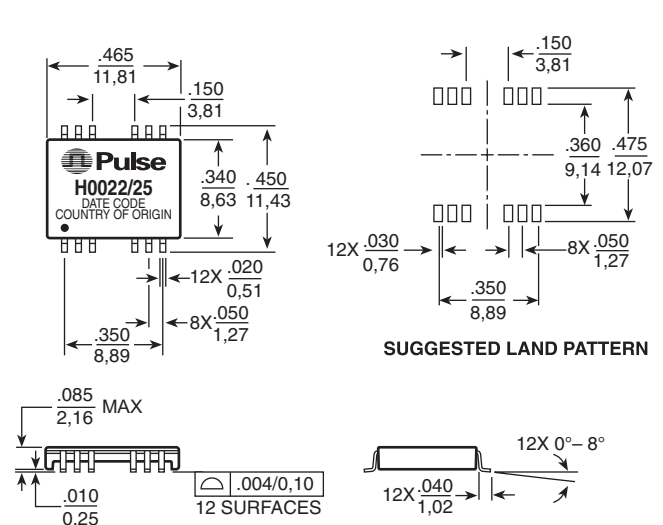
H0020



Weight4 grams
Tape & Reel500/reel
Tube40/tube

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

H0022, H0025



Weight355 grams
Tape & Reel1000/reel
Tube40/tube

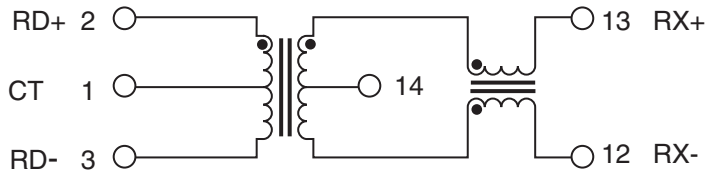
10/100 PC CARD LAN MAGNETICS MODULES



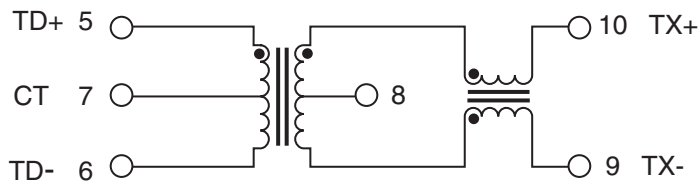
Schematics

PE-69012, H0001

RECEIVE



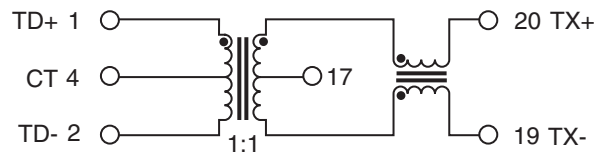
TRANSMIT



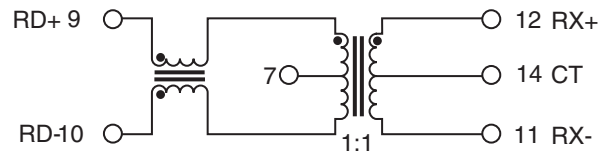
NOTE: Transmit and receive channels are interchangeable on the PE-69012.

H0002

TRANSMIT

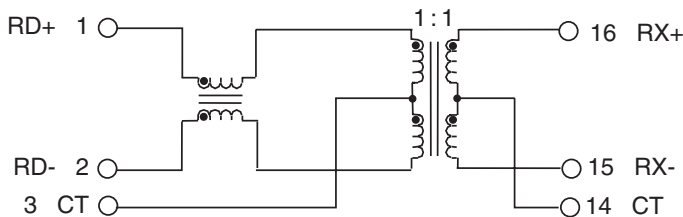


RECEIVE

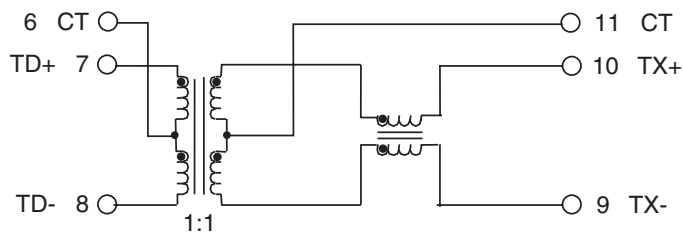


**H0009, H0013,
H0019, H0025**

RECEIVE

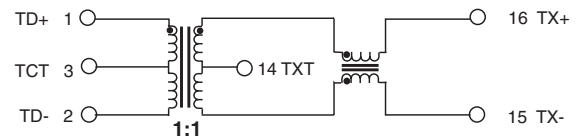


TRANSMIT

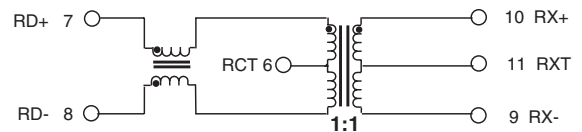


H0020

TRANSMIT

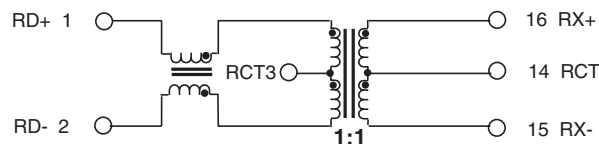


RECEIVE

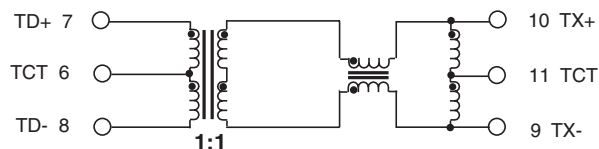


H0022

RECEIVE



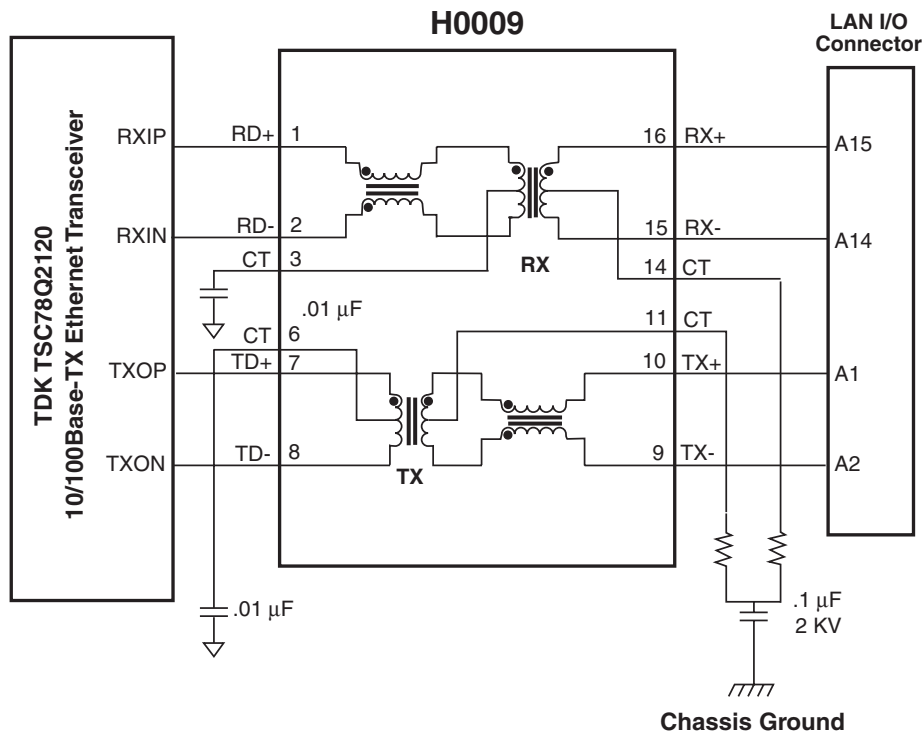
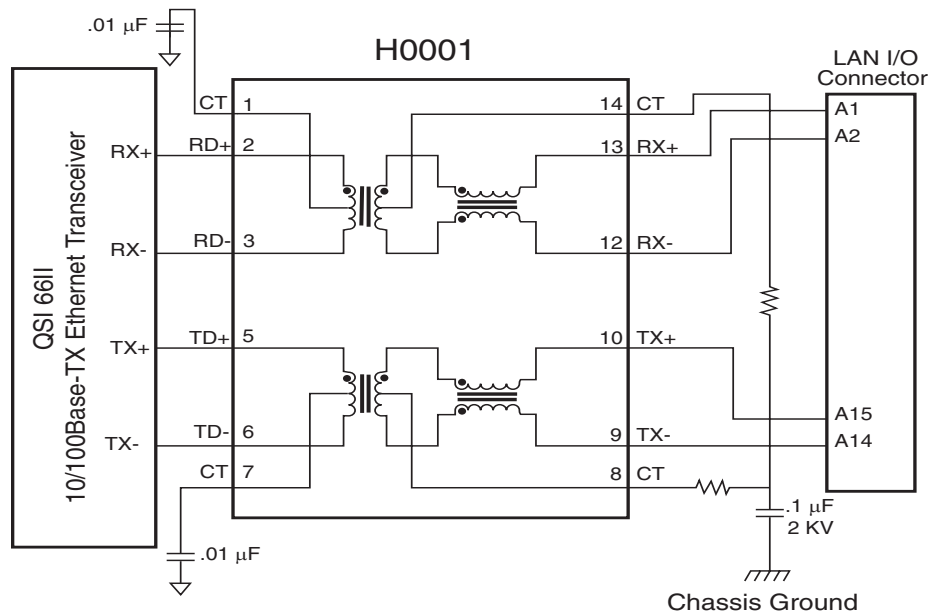
TRANSMIT



10/100 PC CARD LAN MAGNETICS MODULES



Application Circuits



For More Information:

Pulse Worldwide Headquarters
12220 World Trade Drive
San Diego, CA 92128
U.S.A.
www.pulseeng.com
TEL: 858 674 8100
FAX: 858 674 8262

Pulse Northern Europe
3 Huxley Road
Surrey Research Park
Guildford, Surrey GU2 5RE
United Kingdom
TEL: 44 1483 401700
FAX: 44 1483 401701

Pulse Southern Europe
Zone Industrielle
F-39270
Orgelet
France
TEL: 33 3 84 35 04 04
FAX: 33 3 84 25 46 41

Pulse China Headquarters
No. 1
Industrial District
Changan, Dongguan
China
TEL: 86 769 5538070
FAX: 86 769 5538870

Pulse North China
Room 1002
No. 819
Nanjing West Rd
Shanghai
China
TEL: 86 21 32181071
FAX: 86 21 32181396

Pulse South Asia
150 Kampong Ampat
#07-01/02
KA Centre
Singapore 368324
TEL: 65 6287 8998
FAX: 65 6280 0080

Pulse North Asia
3F-4, No. 81, Sec. 1
Hsin Tai Wu Road
Hsi-Chih
Taipei Hsien
Taiwan
TEL: 886 2 26980228
FAX: 886 2 26980948

Performance warranty of products offered on this data sheet is limited to the parameters specified. Data is subject to change without notice. Other brand and product names mentioned herein may be trademarks or registered trademarks of their respective owners.

© Copyright, 2005. Pulse Engineering, Inc. All right reserved.

www.pulseeng.com