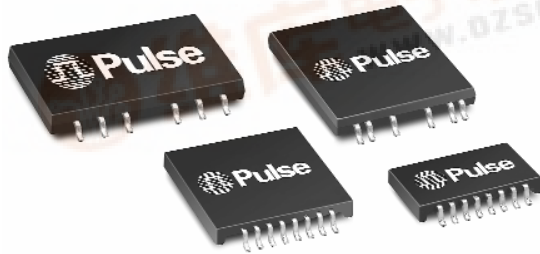





10/100 PC CARD LAN MAGNETICS SOLUTIONS

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-  Half port and single port designs for maximum layout flexibility
-  Low profile packages from .094" (2,39 mm) to .078" (1,98 mm) for PC Card and Cardbus applications
-  Compatible with Intel, TDK, QSI, and ICS transceivers

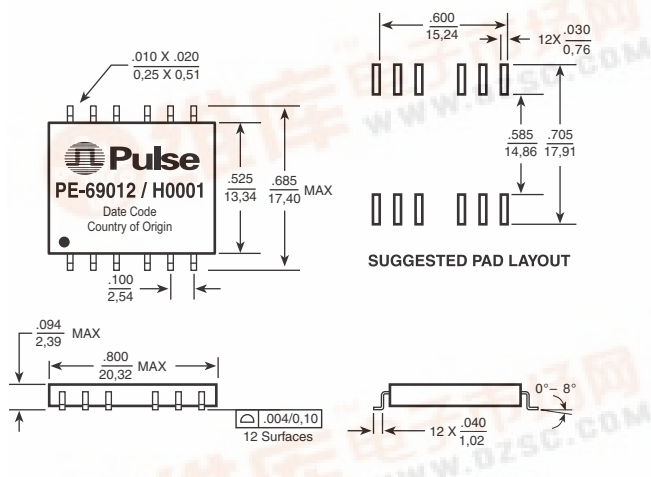
Electrical Specifications @ 25°C — Operating Temperature 0°C to 70°C

Part Number	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)
	Transmit	Receive		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	62 MHz	100 MHz	
PE-69012	1:1	1:1	-1.3	-18	-13	-11	-40	-35	-30	-40	-40	-35	1500
H0001	√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
H0005	1:1*	1:1*	-1.7	-12	-10	-30	-30	-30	-30	—	—	—	1500
H0007	1:1	1:1	-1.3	-16	-12	-11	-15	-18	-20	-40	-40	-35	1500
H0009	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0010	√2:1	1:1	-1.1	-17	-12	-10	-30	-30	-30	-40	-35	-30	1500
H0013	1:1	1:1	-0.9	-16	-12	-11	-35	-33	-20	-50	-45	-40	1500
H0019	1:1	1:1	-0.9	-18	-12	-11	-40	—	-30	-45	-45	-37	1500
H0020	1:1	1:1	-1.0	-16	-12	-12	-42	—	-33	-45	-40	-35	1500
H0022	1:1	1:1	-2.0	-18	-14	-12	-40	-35	-30	-50	-45	-40	1500
H0025	1:1	1:1	-2.0	-18	-12	-12	-40	-35	-30	-45	-45	-37	1500
H0026	1:1	1:1	-1.5	-18	-12	-12	-40	-35	-30	-45	-45	-37	1500

*H0005 can be used for transmit or receive channels.

Mechanicals

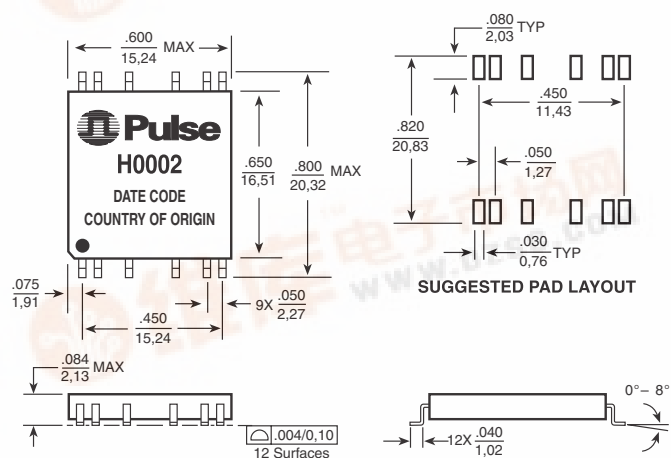
PE-69012, H0001



Weight 1.3 grams
Tape & Reel600/reel
Tube25/tube

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

H0002



Weight 1.2 grams
Tape & Reel900/reel
Tube35/tube



10/100 PC CARD LAN MAGNETICS SOLUTIONS

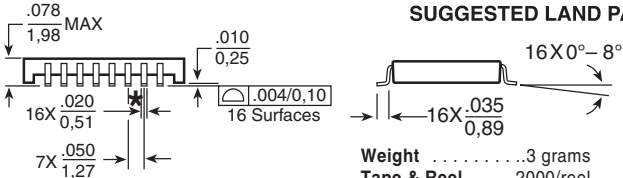
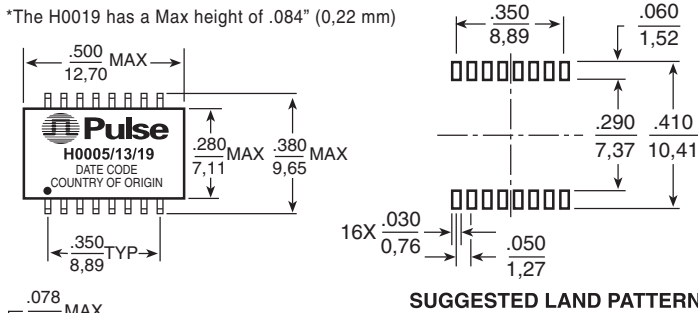
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Mechanicals

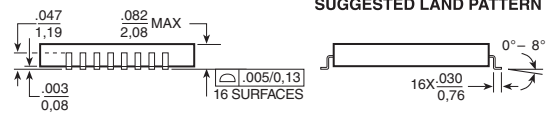
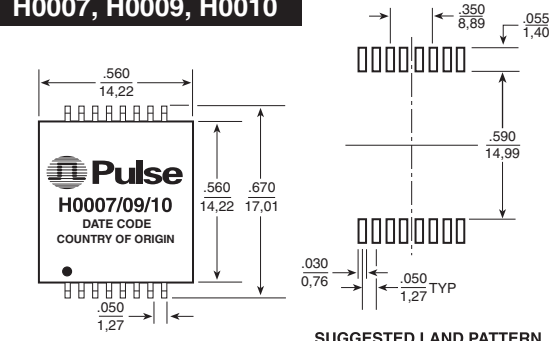
H0005, H0013, H0019*

*The H0019 has a Max height of .084" (0,22 mm)



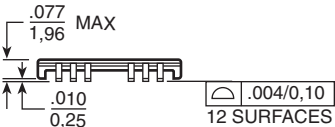
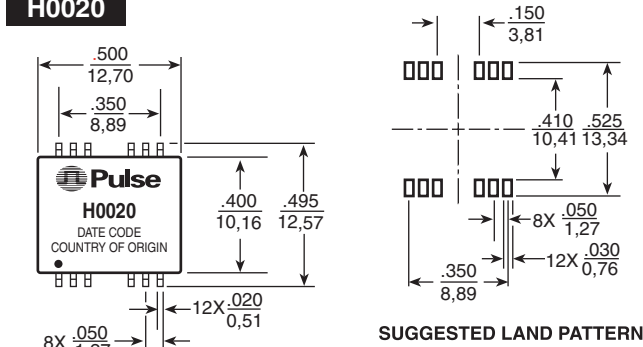
Weight3 grams
Tape & Reel2000/reel
Tube40/tube

H0007, H0009, H0010



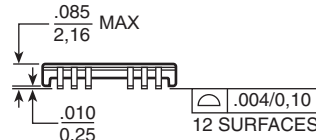
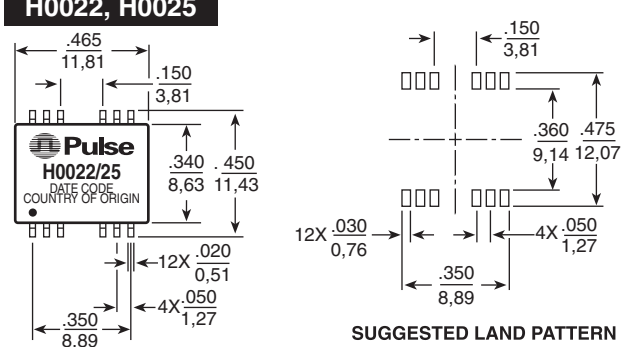
Weight1.3 grams
Tape & Reel900/reel
Tube25/tube

H0020



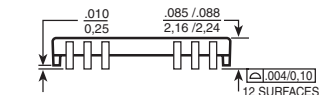
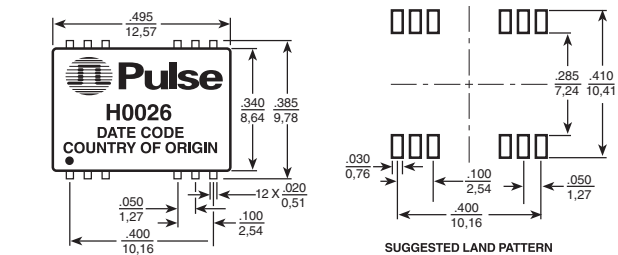
Weight4 grams
Tape & Reel500/reel
Tube40/tube

H0022, H0025



Weight355 grams
Tape & Reel1000/reel
Tube40/tube

H0026



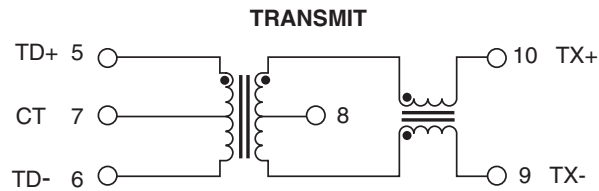
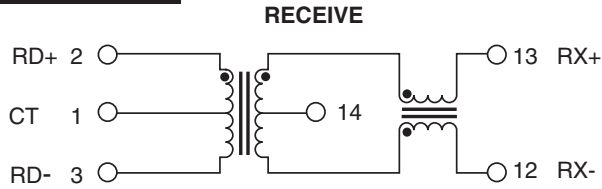
Weight400 grams
Tape & Reel2000/reel
Tube40/tube

Dimensions: Inches
mm

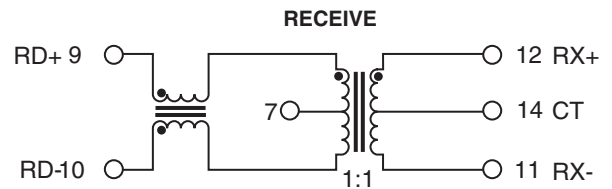
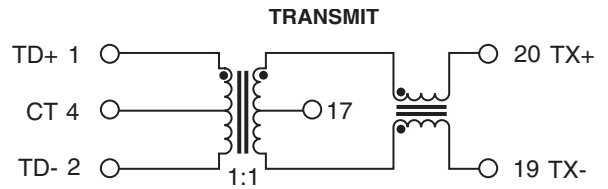
Unless otherwise specified, all tolerances are ± .010 / 0,25

Schematics

PE-69012, H0001

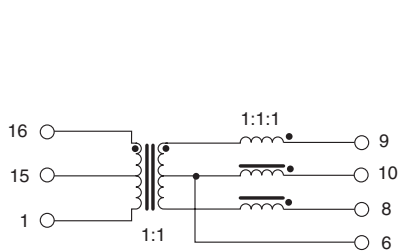


H0002

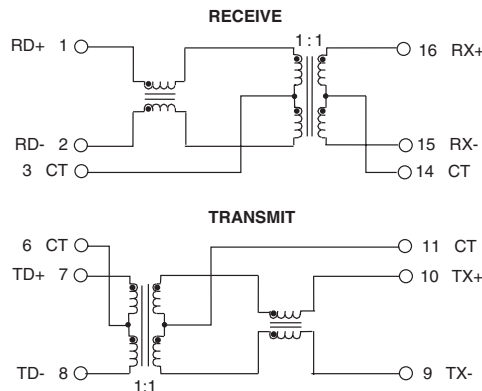


NOTE: Transmit and receive channels are interchangeable on the PE-69012.

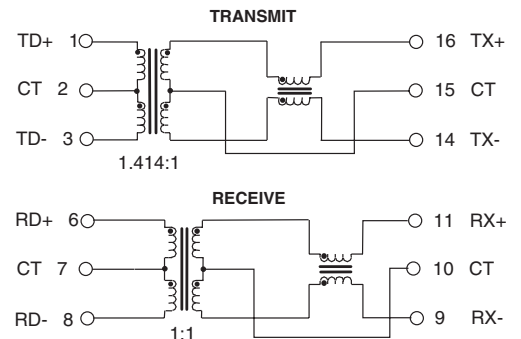
H0005



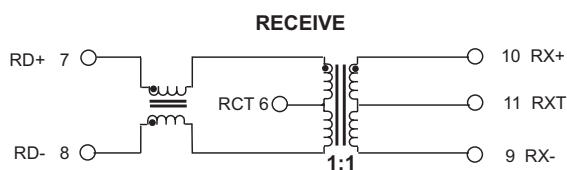
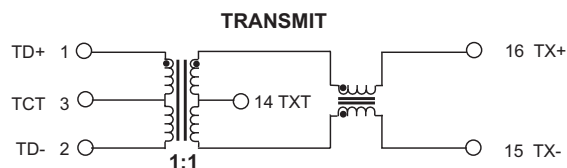
H0007, H0009, H0013, H0019, H0025



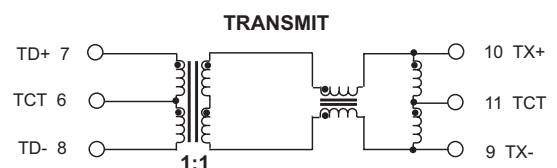
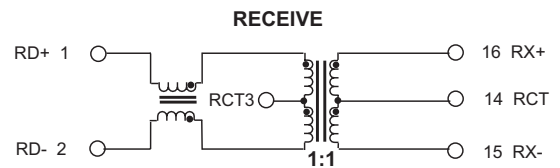
H0010



H0020



H0022, H0026



NOTE: The H0026 is IEEE 802.3 compliant.

10/100 PC CARD LAN MAGNETICS SOLUTIONS

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Application Notes

The Pulse 10/100 PC Card modules provide isolation, impedance matching and noise attenuation in very low profile surface mount packages. This series provides various transmit turns ratios designed for use with the IC physical layer solutions offered by TDK, ICS, QSI and others.

Electrical Functions

Data integrity - The low profile magnetics modules are 100% tested to provide high reliable connectivity.

Equipment isolation - Each module is designed and 100% tested to provide 1500 Vrms minimum isolation per IEEE 802.3 requirements.

EMI suppression - High impedance common mode chokes attenuate signal harmonics which may contribute to radiated and conducted emissions. Transformer center-taps, when grounded, provide noise-shunting paths. The H0022 provides a shunt inductor on the transmit channel for additional noise suppression. Please note the recommended values and ratings of the bypass capacitors shown in the application circuit.

Mechanical Attributes

Design Flexibility - The H0005 is a half port design that offers additional flexibility in PCB layout. H0010 and H0013 are complete 10/100 single port solutions, offering the smallest over all board usage. Each device has a .078" (1,98 mm) maximum height package for use in the most height-restrictive applications. The H0022 maximum height is .085" (2,16 mm) to facilitate additional EMI performance with minimal sacrifice in footprint dimensions. The H0026 provides the industry's smallest IEEE compliant, five core design.

Process and Quality Standards

Process Integrity - The PE-69012, H0001 and H0002 offer IC-grade transfer molded packages and the H0005 through H0013 offer a bottom fill, leaded header type design. Both designs are suitable for high temperature IR reflow operations with peak temperature profiles up to 235°C.

Reliable Solder Connections - Compliant lead design provides a flexible lead resulting in excellent solder-joint reliability with ±.004" (0,10 mm) coplanarity.

All leads are solder-plated after final assembly to adhere to MIL-STD-202 (method 208) for solderability.

Note: All modules are packaged in tubes, unless Tape & Reel is specified. Please add the suffix "T" such as H0009T for Tape & Reel orders.

For More Information :

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Application Circuits

