

10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS

With Various Turns Ratios



- For RoHS part add suffix **NL**⁴
- RoHS “**NL**” peak solder rating 260°C,
non-RoHS peak solder rating 235°C
- Meets IEEE 802.3 specification
- Compact footprint for use in the most space-restrictive applications

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

Part ¹ Number	RoHS ⁴	Turns Ratio		Insertion Loss 100 kHz–100 MHz (dB MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (Vrms MIN)
		TX	RX		30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H1100	2, 3c	2:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1101	2, 3a	1.25:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1102	NL ^{3c}	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1211**	2, 3c	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1212**	2, 3c	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1121	2, 3c	1:√2	1:1	-1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	1500
H1183	NL ^{3a}	1:1	1:1	-1.0	-18	-14	-12	-40	-40	-40	-35	-35	-35	1500
H1199	2, 3a	1:1	1:1	-0.9	-18	-12	-11	-40	-35	-30	-45	-45	-37	1500
HX1188*	NL ^{3c}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198*	NL ^{3c}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1302	2, 3a	1:1	1:1	-1.1	-16	-10	-10	-42	-37	-32	-35	-30	-30	1500

*Operating temperature -40°C to +85°C

**The H1211 and H1212 are transfer molded versions of H1102.

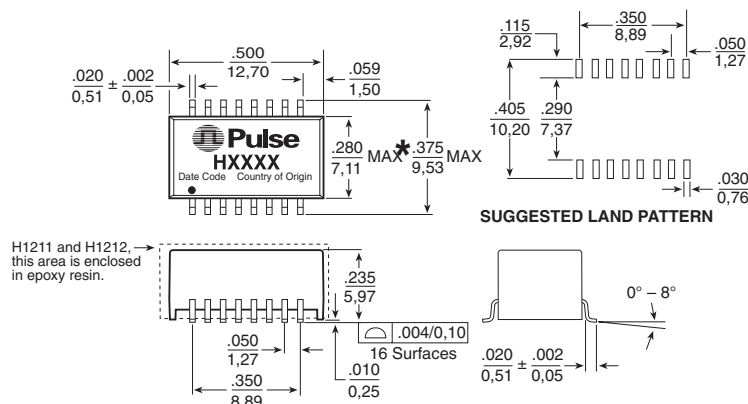
- For Tape & Reel packaging, add a “**T**” suffix at the end of the part number when ordering. e.g. H1102T
- Contact Pulse for RoHS compliant part availability
- MSL=Moisture Sensitivity Level a=1 b=2 c=3 d=4
- Add suffix **NL** for RoHS compliant parts, e.g. H1102 changes to H1102NL or H1102NLT (for Tape and Reel)

Mechanical

H110X, H121X**, H1121, H1183,* H1199, HX1188, HX1198, H1302

*For part number H1183, all dimensions are the same, except the height is .220" (5.59 mm).

**The H1211 and H1212 dimensions are the same as H110X, except the height is .240" (6.12 mm)



Dimensions: $\frac{\text{Inches}}{\text{mm}}$

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

Weight 2.8 grams

Tube45/tube

Tape & Reel600/reel

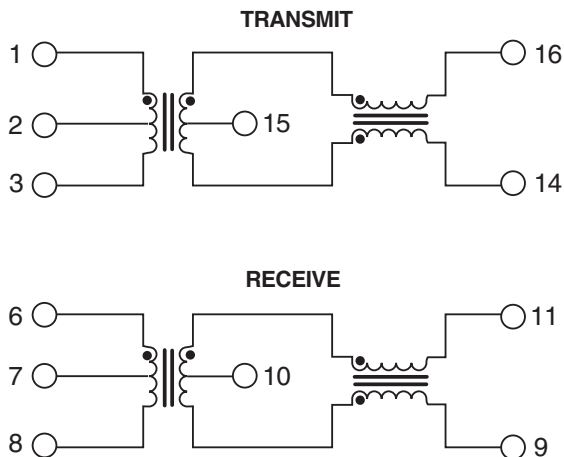
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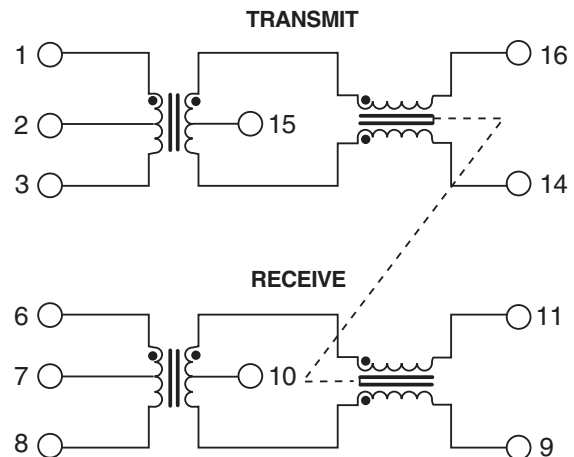


Schematics

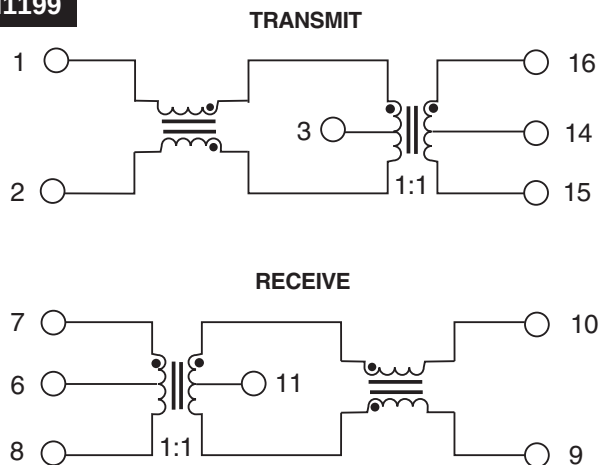
H110X, H1211, H1121, HX1188



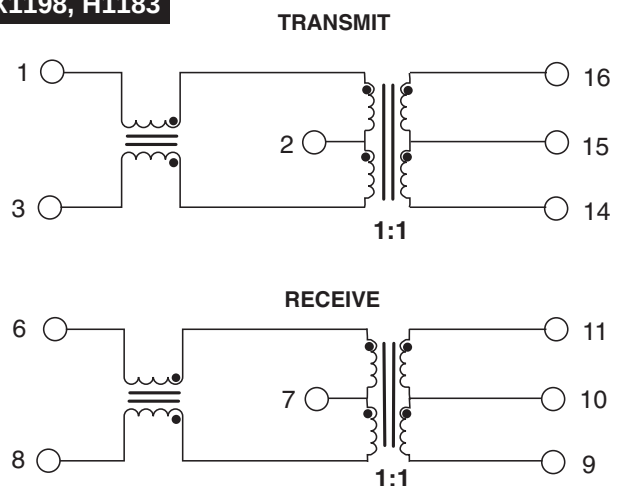
H1212



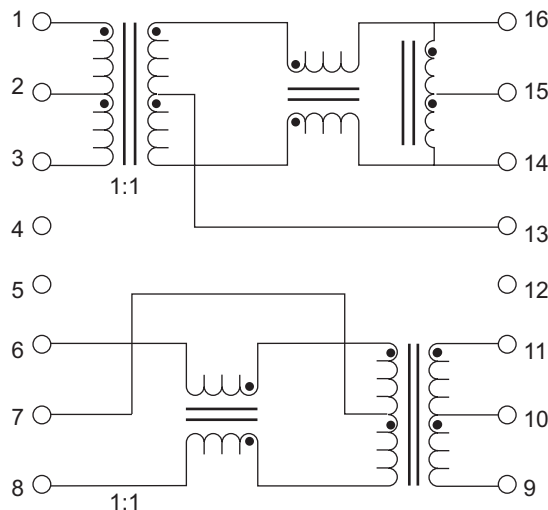
H1199



HX1198, H1183



H1302



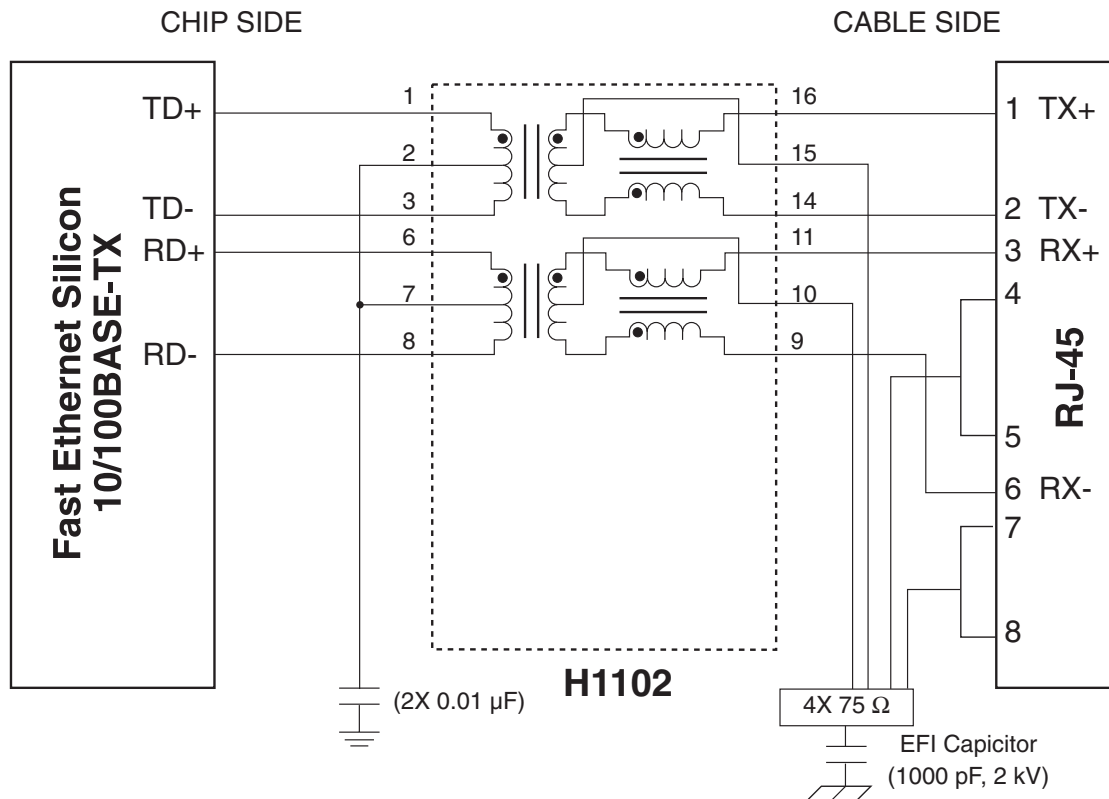
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Typical Application Circuit

H1102

10/100 Circuit



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