10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS



Weight 0.9 grams

Tube 45/tube

Tape & Reel 600/reel

With Various Turns Ratios



- RoHS-6 peak reflow temperature rating: 245°C
- Meets IEEE 802.3 specification
- Compact footprint for use in the most space-restrictive applications

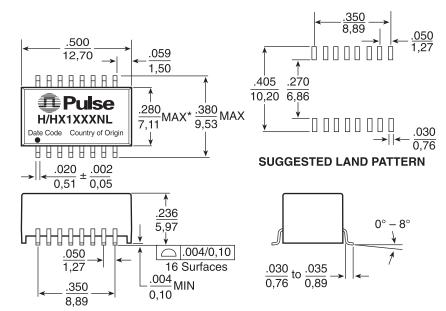
Electrical Specifications @ $25^{\circ}\mathrm{C}$ — Operating Temperature $0^{\circ}\mathrm{C}$ to $70^{\circ}\mathrm{C}$													
RoHS Compliant Part Number	Turns Ratio		Insertion Loss 100 kHz-100 MHz (dB MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (Vrms MIN)
	TX	RX	(ub IVIAA)	30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	
H1100NL ^{3a}	2:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1101NL ^{3a}	1.25:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1102NL ^{3a}	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1121NL ^{3c}	1:1.414	1:1	-1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	1500
H1183NL ^{3a}	1:1	1:1	-1.0	-18	-14	-12	-40	-40	-40	-35	-35	-35	1500
H1199NL ^{3a}	1:1	1:1	-0.9	-18	-12	-11	-40	-35	-30	-45	-45	-37	1500
HX1188NL ^{1, 3a}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198 NL ^{1, 3a}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1302NL ^{3a}	1:1	1:1	-1.1	-16	-10	-10	-42	-37	-32	-35	-30	-30	1500

- 1. Operating temperature -40°C to +85°C
- 2. For Tape & Reel packaging, add a "T" suffix at the end of the part number when ordering, e.g. H1102NLT.
- 3. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4

Mechanical

H11XXNL, H1121NL, *H1183NL, H1199NL, HX1188NL, HX1198NL, H1302NL

* For part number H1183NL, all dimensions are the same, except the height is .220" (5,59 mm).



Dimensions: Inches mm

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

USA 858 674 8100 • Germany 49 7032 7806 0 • Singapore 65 6287 8998 • Shanghai 86 21 32181071 • China 86 755 33966678 • Taiwan 886 3 4643715

10/100BASE-T SINGLE PORT **SURFACE MOUNT MAGNETICS**

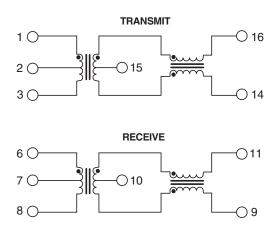


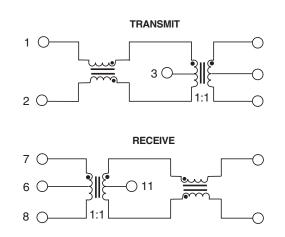
With Various Turns Ratios

Schematics

H110XNL, H1121NL, HX1188NL

H1199NL

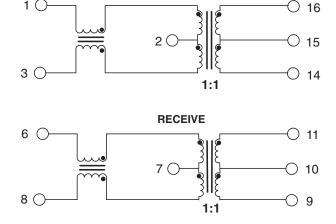




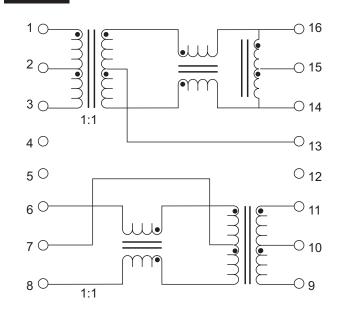
HX1198NL, H1183NL

1 ()

H1302NL



TRANSMIT



10/100BASE-T SINGLE PORT **SURFACE MOUNT MAGNETICS**

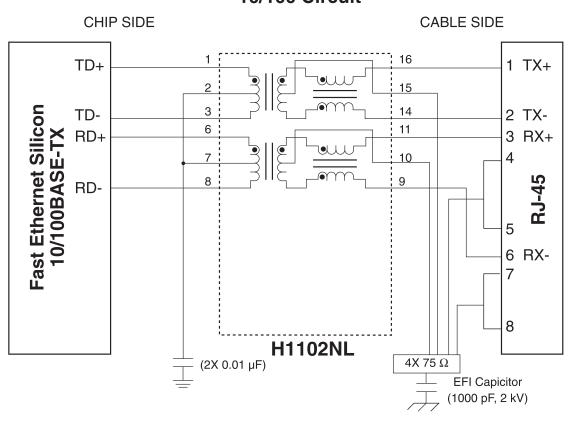


With Various Turns Ratios

Typical Application Circuit

H1102NL

10/100 Circuit



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