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



Weight 0.9 grams

Tube 45/tube

Tape & Reel 600/reel

With Various Turns Ratios



- RoHS-5 peak reflow temperature rating 235°C
- RoHS-6 peak reflow temperature rating 245°C
- Meets IEEE 802.3 specification
- Compact footprint for use in the most space-restrictive applications

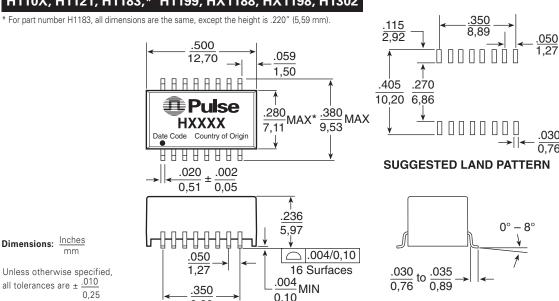
Electrical Specifications @ $25^{\circ}\mathrm{C}$ — Operating Temperature $0^{\circ}\mathrm{C}$ to $70^{\circ}\mathrm{C}$														
RoHS-6 ⁵ Compliant Part	RoHS-5 ⁴ Compliant Part	T D 41		Insertion Loss 100kHz-100MHz (db MAX)	Return Loss (dB TYP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			Hipot (VRMS MIN)
Number	Number	TX	RX	(db IVIAA)	30MHz	60MHz	80MHz	30MHz	50MHz	100MHz	30MHz	60MHz	100MHz	IVIIIN)
H1100NL ^{3a}	H1100	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}	H1102	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
H1121NL ^{3c}	H1121	1:1.414	1:1	-1.1	-18	-12	-11.5	-42	-37	-30	-45	-40	-35	1500
H1183NL ^{3a}	H1183	1:1	1:1	-1.0	-18	-14	-12	-40	-40	-40	-35	-35	-35	1500
H1199NL ^{3a}	H1199	1:1	1:1	-0.9	-18	-12	-11	-40	-35	-30	-45	-45	-37	1500
HX1188NL ^{1, 3a}	HX1188 ¹	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198 NL ^{1, 3a}	HX1198 ¹	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1302NL ^{3a}	H1302	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. H1102T.
- 3. MSL = Moisture Sensitivity Level a=1 b=2 c=3 d=4
- 4. 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).
- 5. 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).

Mechanical

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

8,89



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

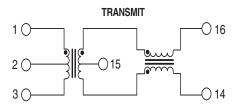
10/100BASE-T SINGLE PORT SURFACE MOUNT MAGNETICS With Various Turns Ratios

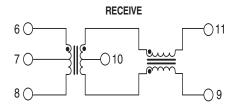


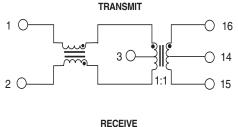
Schematics

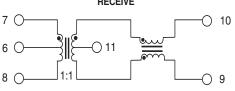
H110X, H1121, HX1188

H1199



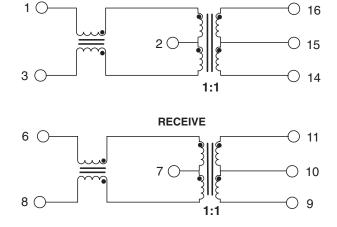




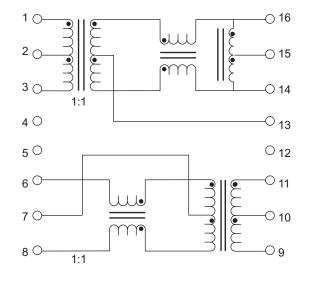


HX1198, H1183

H1302



TRANSMIT



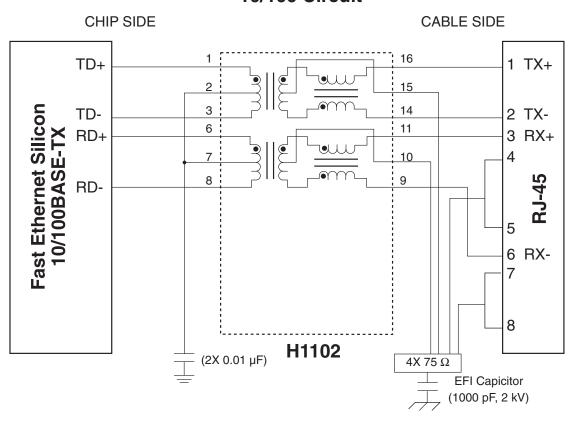
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Typical Application Circuit

H1102

10/100 Circuit



For More Information:

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