100Base-TX Single Port Surface Mount Magnetics with PoE* Option and 1:1 Turns Ratios



*Power over Ethernet





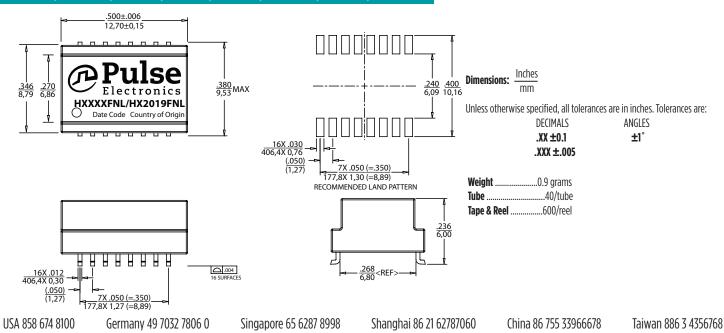
- RoHS peak reflow temperature rating: 245°C
- Meets IEEE 802.3 specification
- Compact footprint for use in the most spacerestrictive applications

Electrical Specifications @ 25°C – Operating Temperature 0°C to 70°C													
	IUIIIS KALIU		Insertion Loss	(UDTIP)			Differential to Common Mode Rejection (dB TYP)			Crosstalk (dB TYP)			
Part Number ²	TX	RX	100 kHz-100 MHz (dB MAX)	30 MHz	60 MHz	80 MHz	30 MHz	50 MHz	100 MHz	30 MHz	60 MHz	100 MHz	Hipot (Vrms MIN)
H1102FNL ^{3a, 4}	1:1	1:1	-1.1	-20	-14	-11.5	-42	-37	-33	-45	-40	-35	1500
HX1188FNL 1, 3a, 4	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
HX1198FNL ^{1, 3a, 4}	1:1	1:1	-1.0	-20	-14	-12	-42	-37	-32	-45	-40	-35	1500
H1197FNL 3a, 4	1:1	1:1	-1.2	-16	-14	-12	-42	-37	-33	-45	-40	-35	1500
H1260FNL ^{3a, 4}	1:1	1:1	-1.1	-16	-14	-12	-43	-37	-33	-35	-40	-35	1500
HX1260FNL 1, 3a, 4	1:1	1:1	-1.1	-16	-14	-12	-43	-37	-33	-45	-40	-35	1500
H2019FNL 3a, 5	1:1	1:1	-1.2	-16	-14	-12	-43	-37	-33	-45	-40	-35	1500
HX2019FNL 1, 3a, 5	1:1	1:1	-1.4	-16	-14.4	-12	-43	-37	-33	-45	-40	-35	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. H1102FNLT.
- **3. MSL** = Moisture Sensitivity Level a=1 b=2 c=3 d=4
- 4. Suitable for Aut-MDIX applications
- **5. PoE** (IEEE 802.3af/ANSI X3.263 compliant)

Mechanical

H1102FNL, HX1188FNL, HX1198NL, H1197FNL, H1260FNL, HX1260FNL, H2019FNL, HX2019FNL



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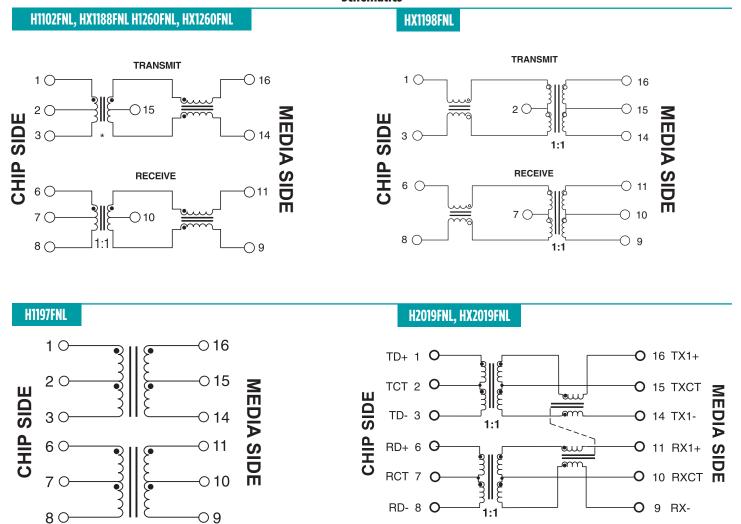
100Base-TX Single Port Surface Mount Magnetics with PoE* Option and 1:1 Turns Ratios



*Power over Ethernet

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Schematics



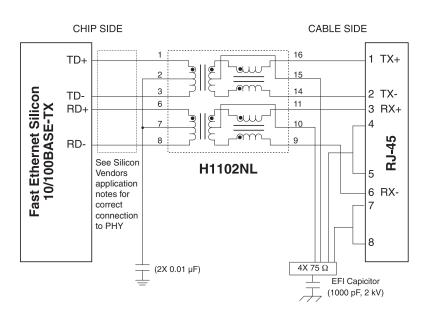
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100Base-TX Single Port Surface Mount Magnetics with PoE* Option and 1:1 Turns Ratios

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Typical Application Circuit

H1102FNL



For More Information

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