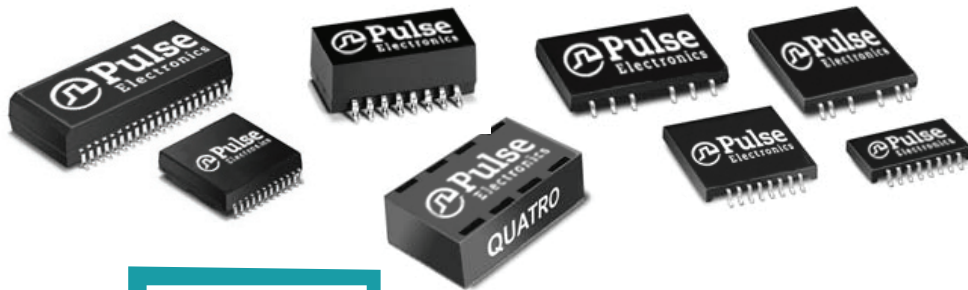




- ☐ Ideal for Industrial Ethernet applications with operating temperature of -40C to 85C. Contact Pulse Electronics for 120C rating.
- ☐ Available for PoE and PoE+ applications.
- ☐ Custom design options available (LED, pinout)

☐^P = PoE, ^{PP} = PoE+

MAGNETICS		CONNECTORS WITH INTEGRATED MAGNETICS	
100BASE-TX	1000BASE-T	100BASE-TX	1000BASE-T
SINGLE: HX1148NL HX1260FNL HX1188FNL HX2019FNL ^P HX2326FNL ^{PP} HX0068ANL	SINGLE: HX5004NL HX5062FNL HX5008FNL HX6096FNL ^{PP} HX5019FNL HX5610NL	1X1: JX00-0027NL JXK0-0125NL ^P JX10-0045NL JXR1-0005NL JXR0-0001NL JXR1-0011NL JXR0-0005NL JXR1-0015NL JXR0-0011NL JXK0-0138NL ^P JXR0-0015NL JXR1-0001NL	1X1: JXK0-0136NL JXK0-0161NL JXKM-0004NL JXKM-0013NL JXK0-0190NL ^{PP}
DUAL: HX1294FNL HX1305FNL	DUAL: HX5014FNL HX5200NL HX5020FNL HX5201NL HX6080FNL ^P	1XN: JX80-0019NL (1X2) JX80-0033NL (1X4) JX8064D668ANL (1X6) JX8064D688ANL (1X8)	1XN: JXG0-0129NL (1X2) JXG0-0098NL (1X4) JXG0-0143NL (1X6)
QUAD: HX1234NL HX1259FNL ^P	QUAD: HX5400NL ^P HX5401NL ^P	2XN: JX20-0114NL (2X4) JX20-0115NL (2X6) JX20-0116NL (2X8)	2XN: JXC0-1016NL (2X1) JXC0-0376NL (2X2) JX0B-3051NL (2X4) ^{PP}

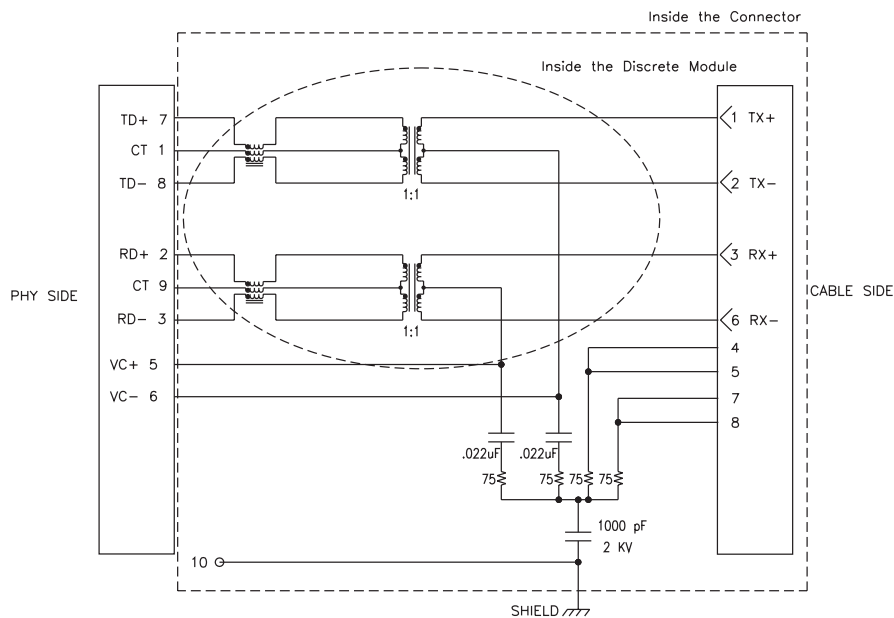




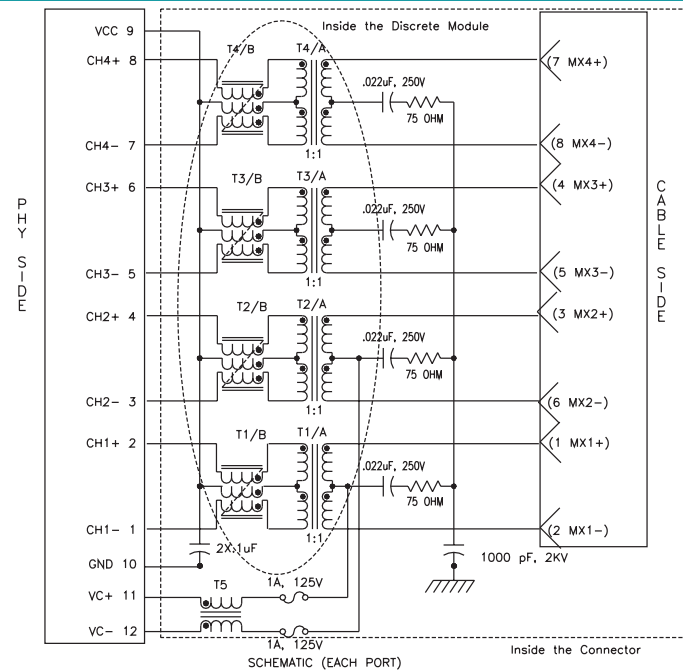
Application Notes

- Layering ground planes is advisable. Route connector/discrete module ground pins to chassis/analog ground if possible.
- Keep signal traces from PHY to connector/discrete module as short as possible. If traces exceed 3-4 inches, pay close attention to line impedance imbalance.
- Using 75Ω resistors and high voltage cap to chassis ground to terminate Cable side CTs is advisable for best EMI performance (included in most connector solutions).
- Follow PHY manufacturer's application notes for further layout considerations.

100BASE-TX APPLICATION CIRCUIT



100BASE-T APPLICATION CIRCUIT



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