












-  Available for 100BASE-TX up to 10GBASE-T data rates
-  SMT (surface mount) discrete and THT (through hole) connector modules with integrated magnetics, available with or without LED's.
-  Meets IEEE 802.3af specification for PoE applications
-  Meets IEEE 802.3at specification for PoE+ applications
-  Available for Extended Temp., Low-Profile, PSE, and PD applications
-  X = extended temp, P = PoE, PP = PoE+, 4P = 4 Pair, VM = Vertical Mount, 2.5G = 2.5GBASE-T, 5G = 5GBASE-T

DISCRETE MAGNETICS				CONNECTORS WITH INTEGRATED MAGNETICS			
100BASE-TX	1000BASE-T	2.5G/5GBASE-T	10GBASE-T	100BASE-TX	1000BASE-T	2.5G/5GBASE-T	10GBASE-T
SINGLE: H2019NL ^P HX2019NL ^{X,P} H2260NL ^P HX2260NL ^{X,P} HX2326NL ^{X,PP}	SINGLE: H6062NL ^{4P,P} HX6062NL ^{X,4P,P} H6096NL ^{4P,PP} HX6096NL ^{X,4P,PP}	SINGLE: HU4006NL ^{4P,PP,2.5G} HU4009NL ^{4P,PP,2.5G} HU4108NL ^{4P,PP,2.5G} H5G1002NL ^{4P,PP,5G}	SINGLE: H7029FNL ^P H7229FNL ^{PP}	1X1: JKO-0120NL ^P JKO-0125NL ^P JXD1-0005NL ^{4P,P} JXD3-0003NL ^{4P,P,VM,X} JXKO-0125NL ^{X,P} JKO-0144NL ^{4P,P} JKO-0144BNL ^{4P,P} JDO-0004NL ^{4P,P} JKM-0201NL ^{4P,PP}	1X1: JKO-0145NL ^P JKO-0177NL ^{4P,PP} JXKO-0190NL ^{X,4P,PP} JKO-0161NL ^{4P,P} JKO-0133NL ^P JXKO-0161NL ^{X,4P,P}	1X1: JKO-2500NL ^{4P,PP,2.5G} JXKO-2500NL ^{4P,PP,2.5G} JKO-5101NL ^{4P,PP,5G}	1X1: JT7-1104NL ^{4P,PP} JT7-1115NL ^{4P,PP} JT7-1119NL ^{4P,PP}
DUAL: H2009NL ^P H2305NL ^P HX2305NL ^{P,X}	DUAL: HX5200NL ^{X,P} H6080NL ^{4P,P} HX6080NL ^{X,4P,P} H6101NL ^{4P,PP} HX6101NL ^{4P,PP}	DUAL: HU4103NL ^{4P,PP,2.5G}	DUAL: Please contact Pulse	1XN: J1N-0011NL ^P (1X4) JGO-0031NL ^P (1x2) JGO-0032NL ^P (1x4)	1XN: JON-0012NL (1X4) JON-0013NL ^{PP} (1X4) J1N-0008NL ^P (1X4) J1N-0003NL ^{PP} (1x4) J1N-0004NL ^{PP} (1x4) J1N-0007NL ^{PP} (1x4)	1XN: Available for Sampling: Please contact Pulse	1XN: Please contact Pulse
QUAD: H1259NL ^P HX1259NL ^{X,P} H2017NL ^P	QUAD: H5400NL ^{X,4P,P} HX5400NL ^{X,4P,P} H6400NL ^{4P,PP}	QUAD: Please contact Pulse	QUAD: Please contact Pulse	2XN: JX20-0235NL ^P (2X4)	2XN: JOB-0364NL ^P (2x4) JOB-0366NL ^P (2x6) JOB-0368NL ^P (2x8) JOB-0384NL ^{PP} (2x4) JOB-0386NL ^{PP} (2x6) JOB-0388NL ^{PP} (2x8) JOB-3448NL ^{PP} (2x6)	2XN: JOB-2005NL ^{4P,PP,2.5G} (2x4) JOB-2014NL ^{4P,PP,2.5G} (2x2) JOB-2015NL ^{4P,PP,2.5G} (2x6) JOB-5401NL ^{4P,PP,5G} (2x4)	2XN: Please contact Pulse

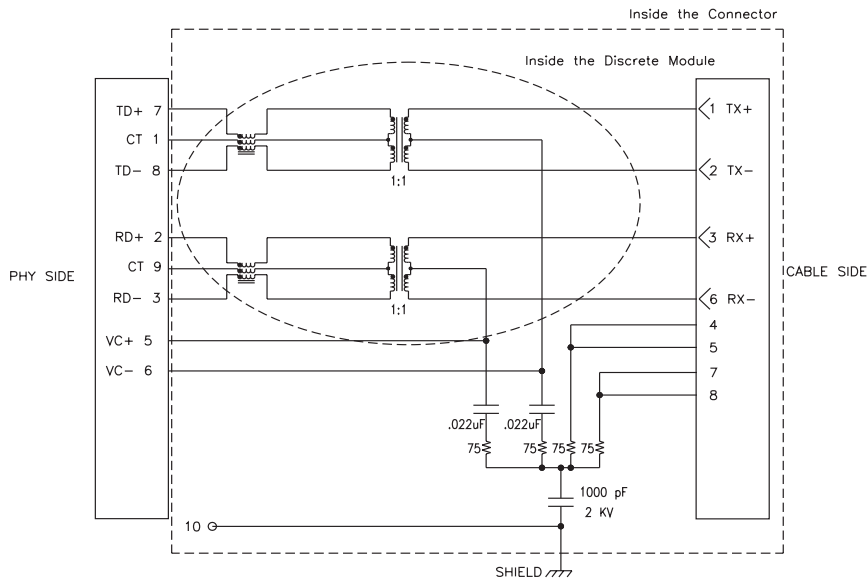
* Additional package options available, Please contact Pulse



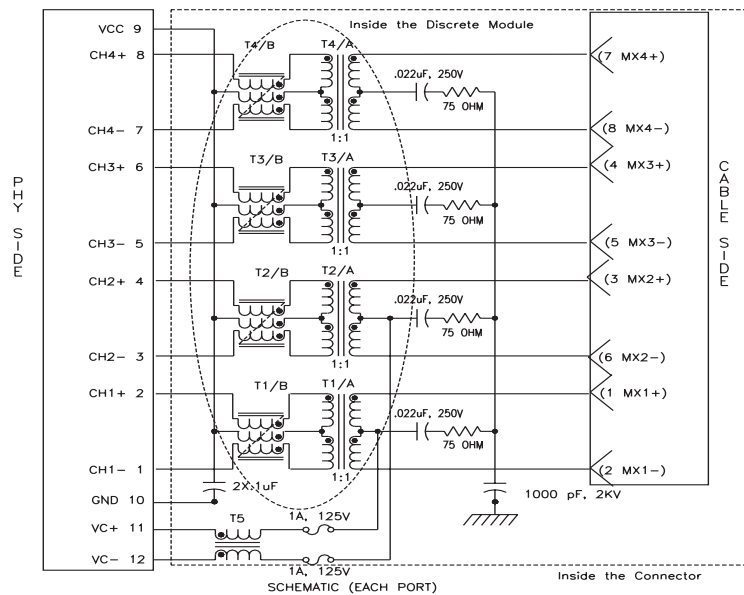
Application Notes

-  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 BST (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.
-  Common applications include: VoIP phones, WLAN APs, Security Cameras, POS Terminals, Keycard Access/Security.

100BASE-TX APPLICATION CIRCUIT



100BASE-T APPLICATION CIRCUIT



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