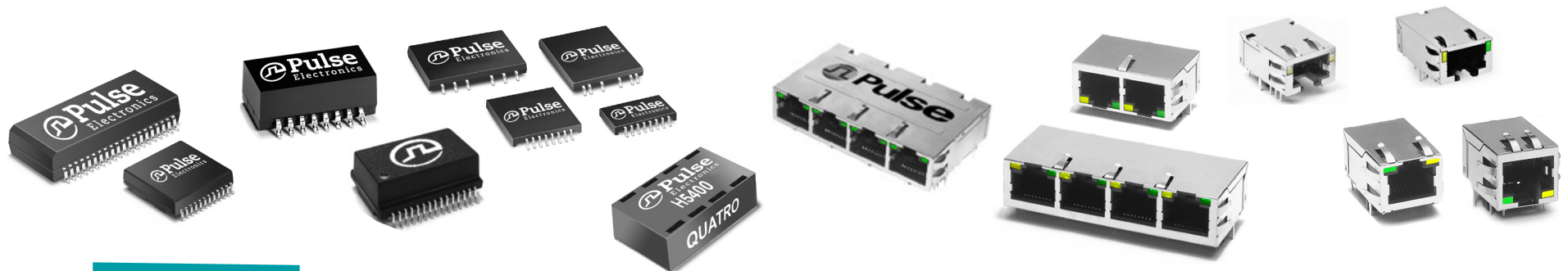**RoHS COMPLIANT**

Pulse Electronics

- Ideal for single and multi-port server applications
- Available for PoE, PoE+ and PCI - Express cards.
- Custom design options available (LED, pinout)
- X = extended temp, P = PoE, PP = PoE+

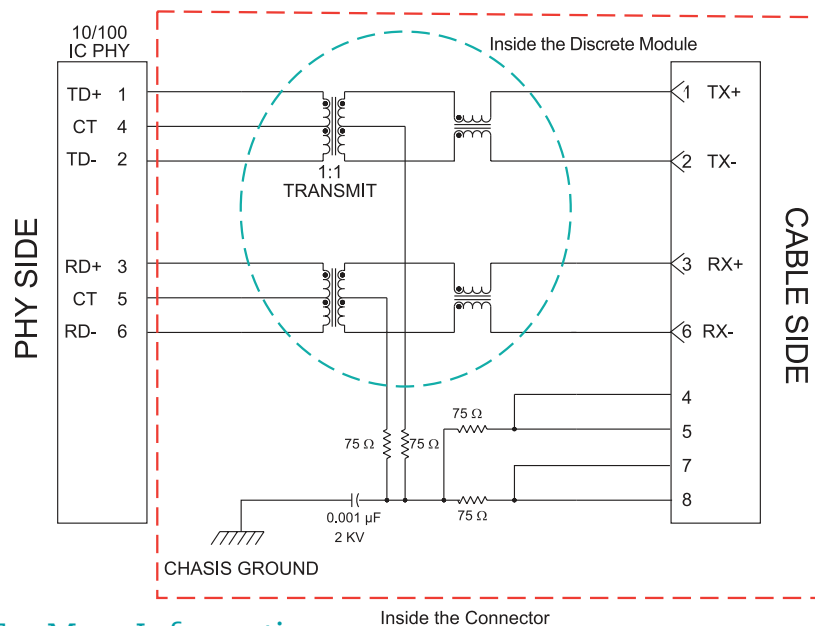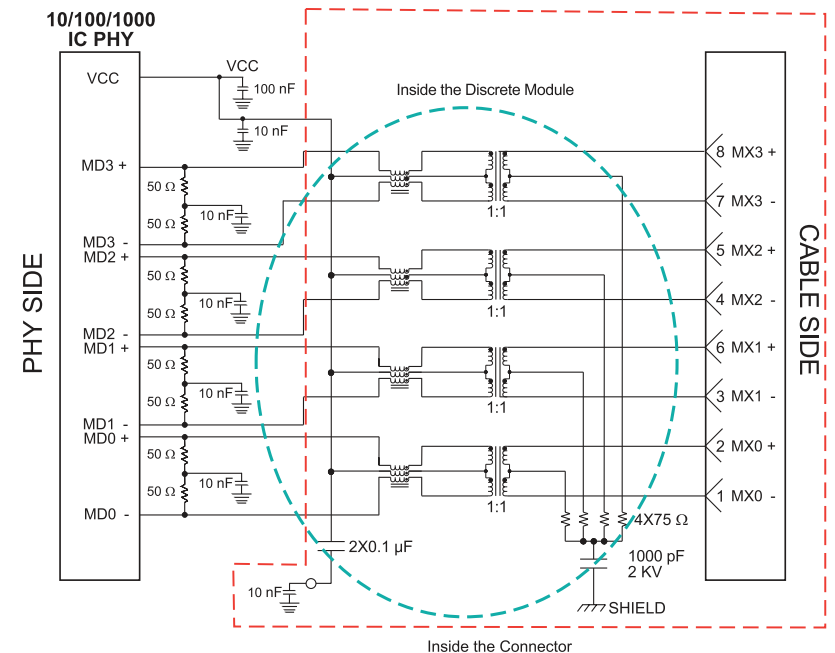| MAGNETICS			CONNECTORS WITH INTEGRATED MAGNETICS			
10/100	**Gigabit**	**10GBASE-T**	**10/100**	**Gigabit**	**10GBASE-T**	
Single:	**Single:**	**Single (4 channel):** / **Single (5 channel):**	**1X1:**	**1X1:**	**1X1 (4 channel):**	**1X1 (5 channel):**
H1263NL	H5062FNL H5610NL	H7028FNL H7137FNL ^{P}	JKM-0009NL JKM-0010NL	JKM-0003NL JKM-0004NL	JT4-1120HL	JT4-1108HL
H2019FNL ^{P}	H6062FNL ^{P} HX5610NL ^{X}	H7029FNL ^{P}	JK0-0125NL ^{P} JK0-0144NL ^{P}	JK0-0161NL ^{P} JK0-0177NL ^{P}	JTH-0024NL	JT4-1109HL
HX1188FNL ^{X}	HX5004NL ^{X}		JX00-0112NL ^{X}	JXK0-0190NL		
HX2326FNL $^{X, PP}$	HX5062FNL ^{X}					
Dual:	**Dual:**	**For Dual, please contact Pulse**	**1X2:**	**1X2:**	**For 1XN, please contact Pulse**	
H1270FNL	H5014FNL HX5014FNL ^{X}		J80-0019NL	JG0-0129NL		
H2006ANL ^{P}	H5200NL ^{P} HX5200NL ^{X}		JX80-0019NL ^{X}	JXG0-0129NL ^{X}		
HX1294FNL ^{X}	H5201NL HX5201NL ^{X}					
H2600FNL						
Quad:	**Quad:**	**For Quad, please contact Pulse**	**1X4:**	**1X4:**		
H1164NL H1259FNL ^{P}	H5200NL ^{P} H5400NL ^{P}		J80-0004NL	JG0-0098NL		
H5200NL ^{P} H5201NL	HX5400NL $^{P, X}$ HX5401NL $^{P, X}$		JX80-0033NL ^{X}	JXG0-0098NL ^{X}		
HX1234NL ^{X} HX5200NL ^{X}	H6400NL ^{PP}		J1N-0013NL	J1N-0002NL		
HX5201NL ^{X} HX1259FNL $^{P, X}$						

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

10/100 APPLICATION CIRCUIT

TYPICAL 10GBASE-T /GIGABIT CIRCUIT

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