



Product Features:

- 10/100BASE-TX Ethernet RJ45
- IEEE802.3af PoE Compliant
- 100% Compliance Testing
- 1500Vrms Hi-Pot
- 30µ" Gold (min) on Contacts
- Proprietary Robust Contact Design
- UL60950 and UL62368 Recognized

Part Number		Circuit	LED's (L/R)	Current	Return Loss (min)				Insertion Loss (max)
Standard Temp (0 to 70°C)	Extended Temp (-40 to +85°C)				1-30MHz	40MHz	50MHz	60-80MHz	
HFJT1-RP44RL	HFJT1-RPE44RL	A	None	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB
HFJT1-RP44-L11RL	HFJT1-RPE44-L11RL	A	G/G	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB
HFJT1-RP44-L12RL	HFJT1-RPE44-L12RL	A	G/Y	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB
HFJT1-RP48RL*	HFJT1-RPE48RL*	B	None	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB
HFJT1-RP48-L11RL*	HFJT1-RPE48-L11RL*	B	G/G	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB
HFJT1-RP48-L12RL*	HFJT1-RPE48-L12RL*	B	G/Y	350mA	-18dB	-15.5dB	-13.6dB	-12dB	-1.1dB

*RP48 and RPE48 for use with current drive Auto-MDIX PHY's only

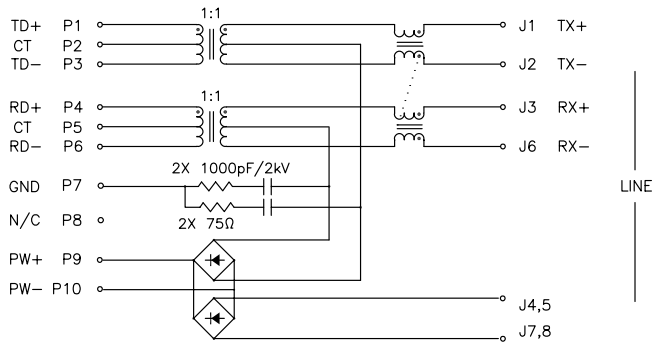
Notes:

1. Please see PCB layout app note on last page
2. LED Key : G = Green, Y = Yellow
3. Other LED colors, bi-colors, polarities, and current limiting versions available
4. Available without ground tabs
5. Part specific datasheets available
6. Higher current parts available

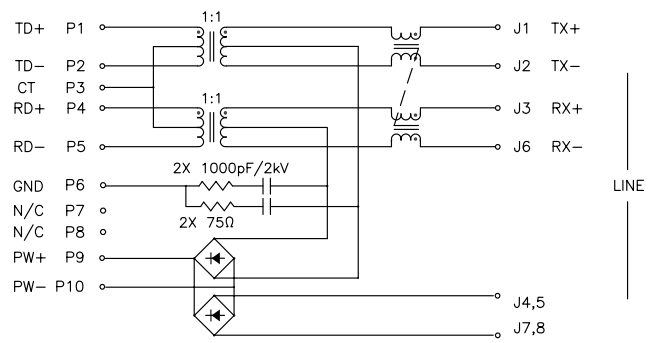
HALO 10/100BASE-TX PoE Ethernet Family of FastJacks

Circuit A

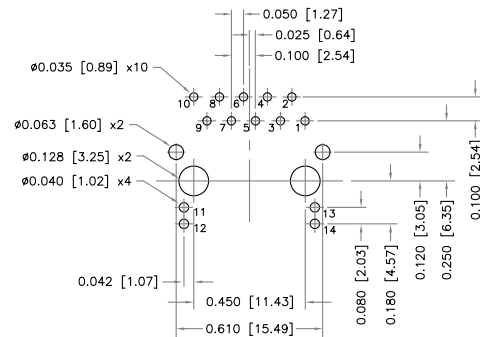
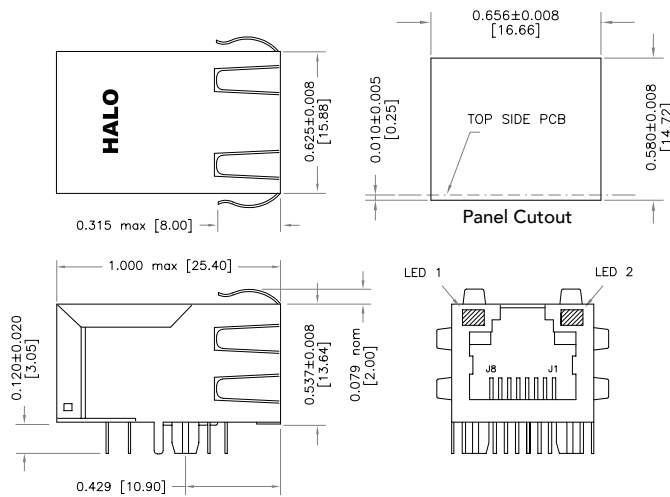
If using circuit A please see PCB layout app note on last page



Circuit B



Mechanical



Recommended PCB Layout (Component Side)

* Parts numbers without LED's omit pins 11 through 14

Dimensions are in inches [mm]



Santa Clara, CA 95054
(650) 903-3800

www.haloelectronics.com

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Solder Pad Design Considerations for FastJack™ with “Power Feed” Terminals

IEEE802.3 requires a system to meet 1500VAC or 2250VDC isolation between cable side and chip side circuits. Figure 1 shows a typical connector circuit (HFJT1-RP44RL) with power feed on pin9 and pin10. Pin8 (no connection) creates desired separation internally inside the connector. Externally, the concern for the designer is the spacing between pin9 and pin7 solder pads.

Minimum separation required between solder pads is 55mils to avoid electron arcing at 1500VAC voltage. Terminal holes are approximately 35mils diameter at 100mils pitch (column to column). Therefore, the 55mils separation is achievable as shown in figure 2.

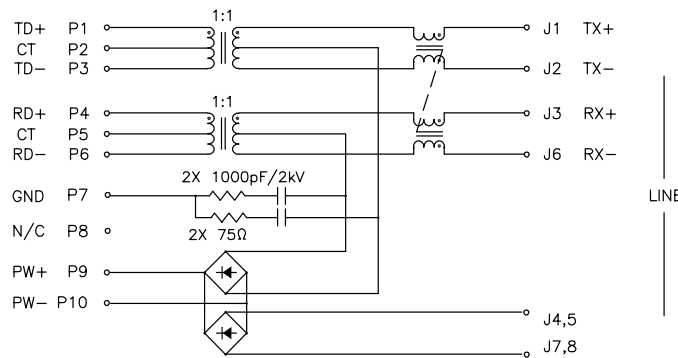
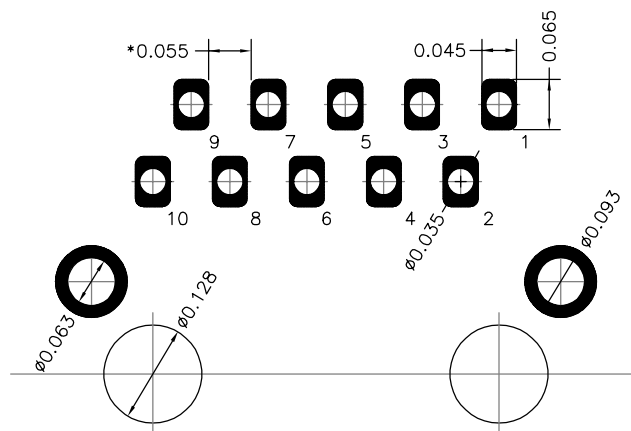


Figure 1



Recommended PCB Pattern (Bottom View)

Dimensions: Inch

Figure 2