



### Product Features:

- Gigabit (10/100/1000) Ethernet RJ45
- IEEE802.3ab Compliant
- 350uH min OCL at 8mA DC Bias Across the Full Temp Range
- 30μ" Gold Plating (min) on Contacts
- 100% Compliance Testing
- 1500Vrms Hi-Pot
- Proprietary Robust Contact Design

| Part Number               |                              | Circuit | LED's (L/R) | Return Loss (min) |       |       |        | PHY Drive |
|---------------------------|------------------------------|---------|-------------|-------------------|-------|-------|--------|-----------|
| Standard Temp (0 to 70°C) | Extended Temp (-40 to +85°C) |         |             | 1-40MHz           | 60MHz | 80MHz | 100MHz |           |
| HFJ11-1G01ERL             | HFJ11-E1G01ERL               | A       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G01E-L11RL         | HFJ11-E1G01E-L11RL           | A       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G01E-L12RL         | HFJ11-E1G01E-L12RL           | A       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G06ERL             | HFJ11-E1G06ERL               | B       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G06E-L11RL         | HFJ11-E1G06E-L11RL           | B       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G06E-L12RL         | HFJ11-E1G06E-L12RL           | B       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G11ERL*            | HFJ11-E1G11ERL               | C       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G11E-L11RL*        | HFJ11-E1G11E-L11RL           | C       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G11E-L12RL*        | HFJ11-E1G11E-L12RL           | C       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G16ERL*            | HFJ11-E1G16ERL               | D       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G16E-L11RL*        | HFJ11-E1G16E-L11RL           | D       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G16E-L12RL*        | HFJ11-E1G16E-L12RL           | D       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJ11-1G41ERL*            | HFJ11-E1G41ERL               | E       | None        | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJ11-1G41E-L11RL*        | HFJ11-E1G41E-L11RL           | E       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJ11-1G41E-L12RL*        | HFJ11-E1G41E-L12RL           | E       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJ11-1G46ERL*            | HFJ11-E1G46ERL               | F       | None        | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJ11-1G46E-L11RL*        | HFJ11-E1G46E-L11RL           | F       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJ11-1G46E-L12RL*        | HFJ11-E1G46E-L12RL           | F       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |

### \*Recommended for New Designs

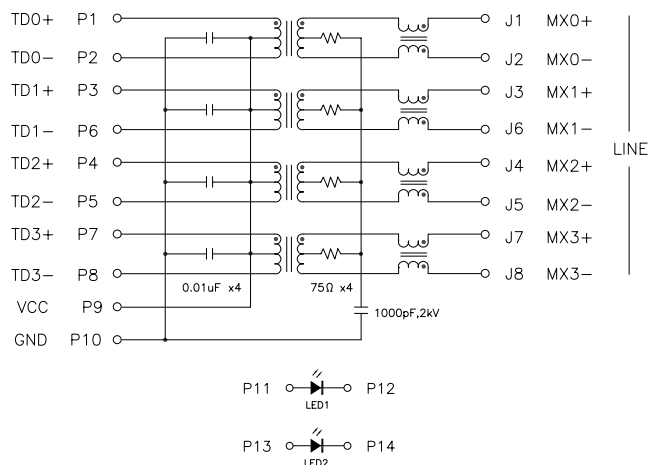
#### Notes:

1. LED Key : G = Green, Y = Yellow
2. Other LED colors, bi-colors, polarities, and current limiting versions available
3. Unshielded and without ground shield tabs available
4. Part specific datasheets available
5. Tab-up versions available
6. The 1G11 and 1G16 circuits are recommended for new designs when using current drive PHYs

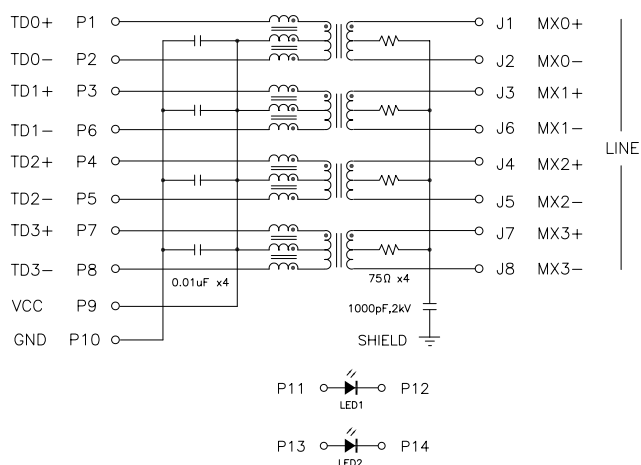
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# HALO Gigabit Ethernet Family of FastJacks

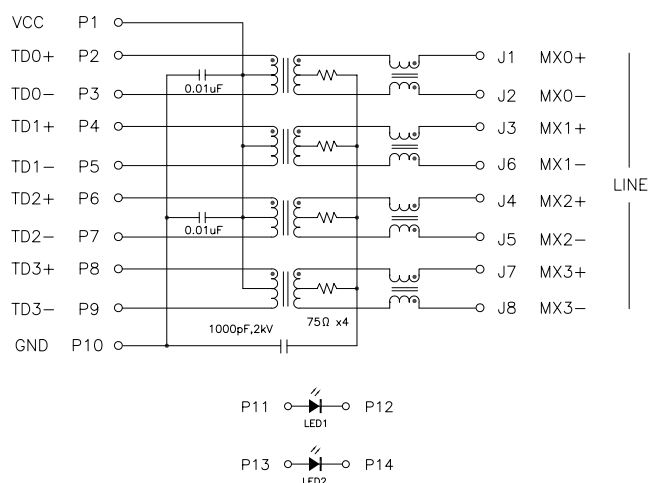
## Circuit A



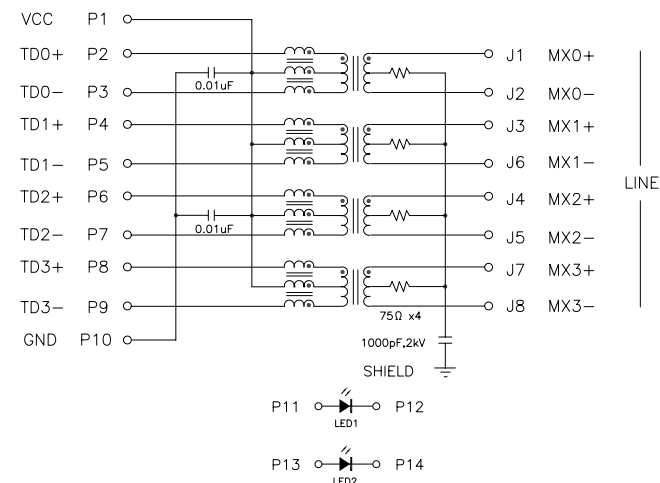
## Circuit B



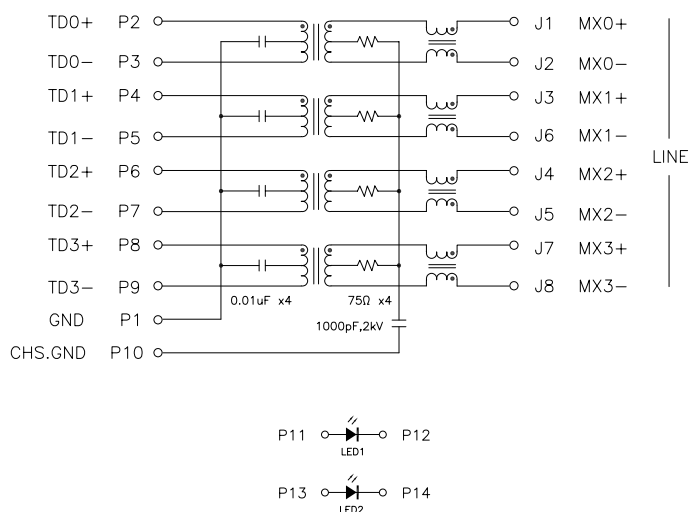
## Circuit C



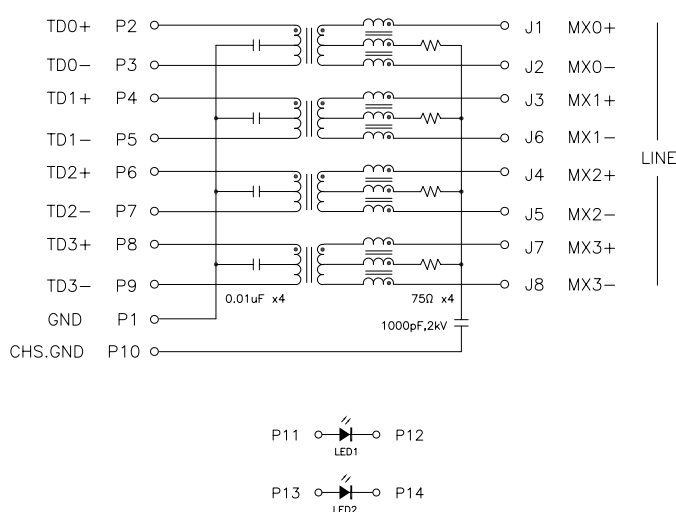
## Circuit D

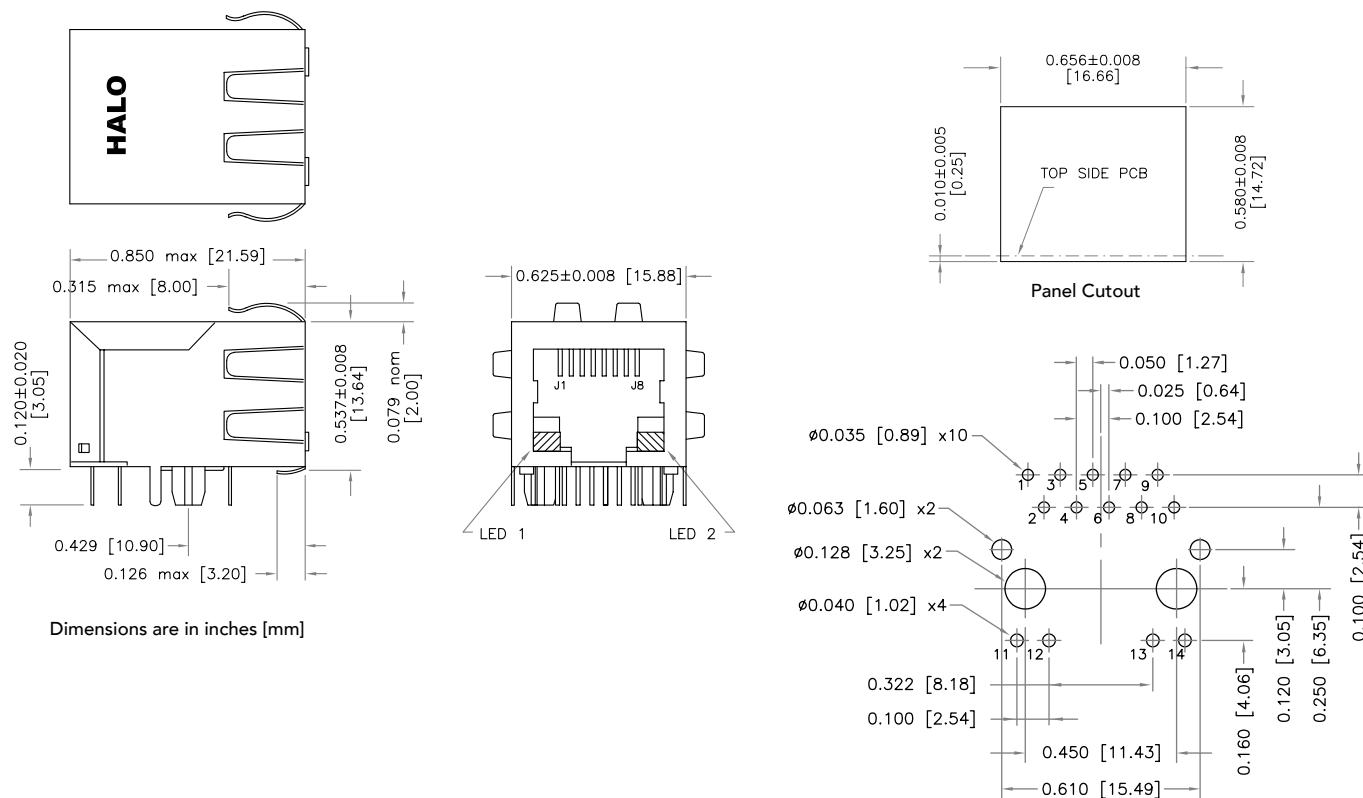


## Circuit E



## Circuit F





Dimensions are in inches [mm]

Recommended PCB Layout (Component Side)

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



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