



### 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 |           |
| HFJT1-1G01RL              | HFJT1-E1G01RL                | A       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G01-L11RL          | HFJT1-E1G01-L11RL            | A       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G01-L12RL          | HFJT1-E1G01-L12RL            | A       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G06RL              | HFJT1-E1G06RL                | B       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G06-L11RL          | HFJT1-E1G06-L11RL            | B       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G06-L12RL          | HFJT1-E1G06-L12RL            | B       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G11RL*             | HFJT1-E1G11RL                | C       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G11-L11RL*         | HFJT1-E1G11-L11RL            | C       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G11-L12RL*         | HFJT1-E1G11-L12RL            | C       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G16RL*             | HFJT1-E1G16RL                | D       | None        | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G16-L11RL*         | HFJT1-E1G16-L11RL            | D       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G16-L12RL*         | HFJT1-E1G16-L12RL            | D       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Current   |
| HFJT1-1G41RL*             | HFJT1-E1G41RL                | E       | None        | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJT1-1G41-L11RL*         | HFJT1-E1G41-L11RL            | E       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJT1-1G41-L12RL*         | HFJT1-E1G41-L12RL            | E       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJT1-1G46RL*             | HFJT1-E1G46RL                | F       | None        | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJT1-1G46-L11RL*         | HFJT1-E1G46-L11RL            | F       | G/G         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |
| HFJT1-1G46-L12RL*         | HFJT1-E1G46-L12RL            | F       | G/Y         | -18dB             | -14dB | -12dB | -10dB  | Voltage   |

### \*Recommended for New Designs

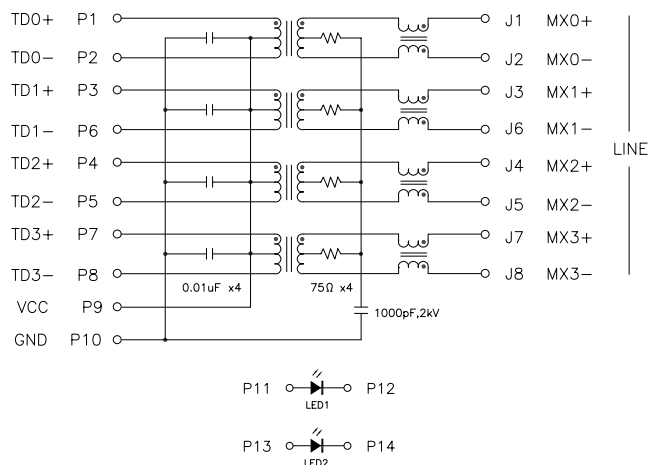
#### Notes:

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-down versions available
6. The 1G11 and 1G16 circuits are recommended for new designs when using current drive PHYs

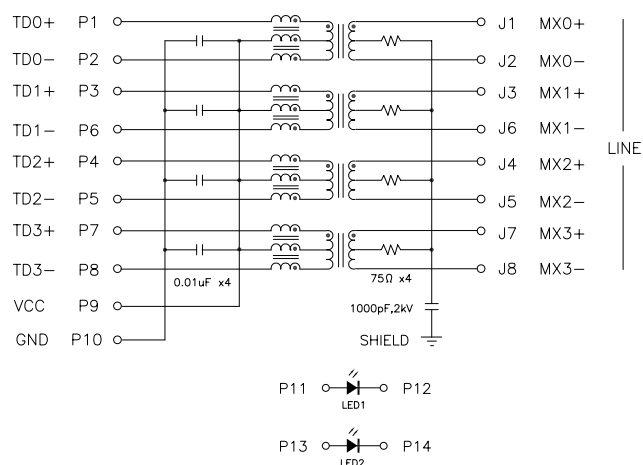
For additional information contact your [local representative](#), or HALO's support staff at (650) 903-3800 or [info@haloelectronics.com](mailto:info@haloelectronics.com)

# HALO Gigabit Ethernet Family of FastJacks

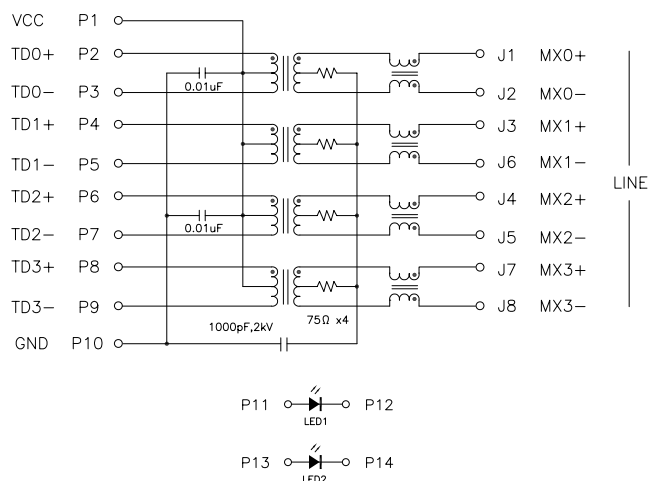
## Circuit A



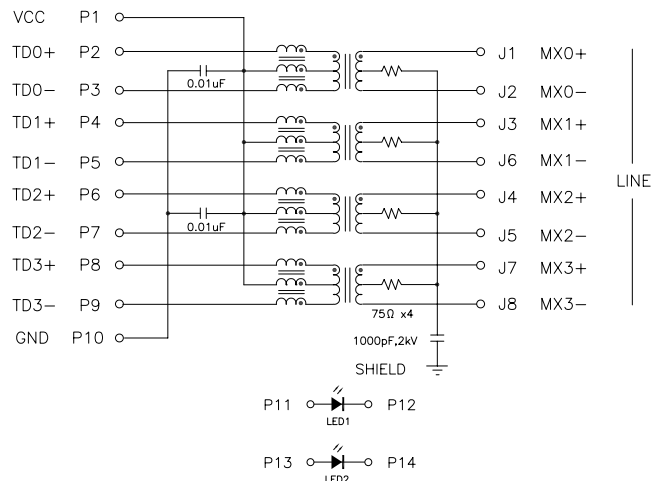
## Circuit B



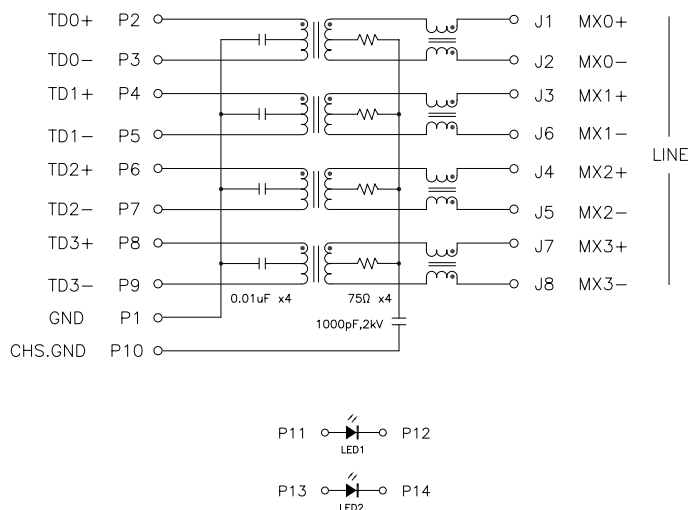
## Circuit C



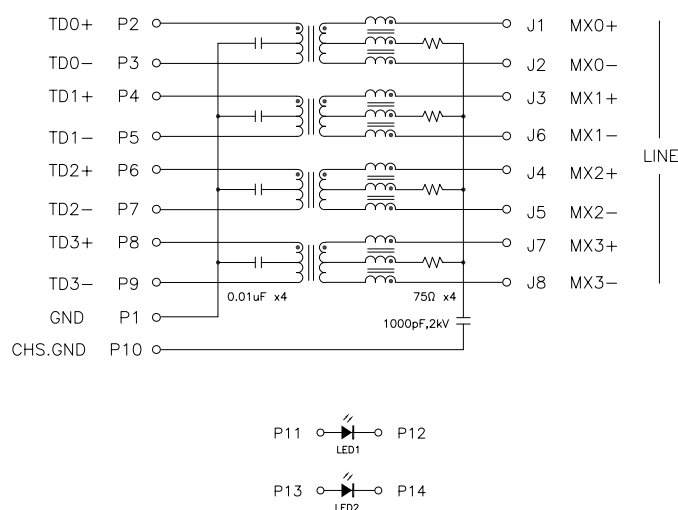
## Circuit D

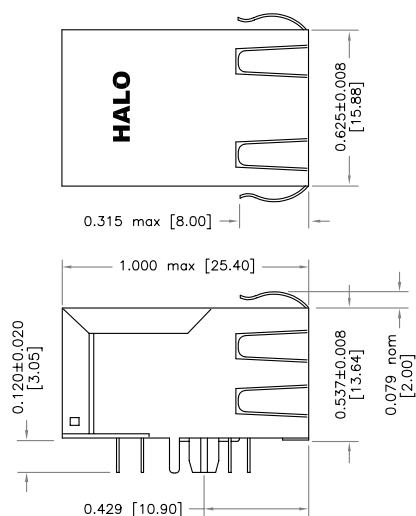


## Circuit E

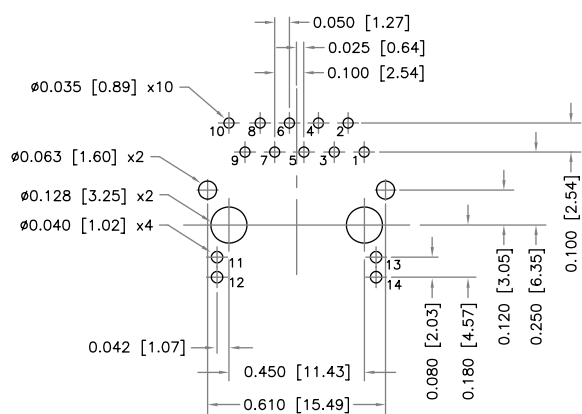
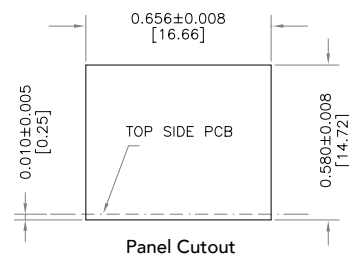
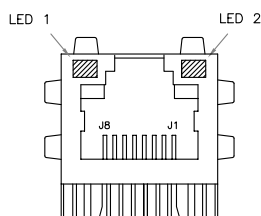


## Circuit F





Dimensions are in inches [mm]



Recommended PCB Layout (Component Side)

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



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