HALO ELECTRONICS, INC.

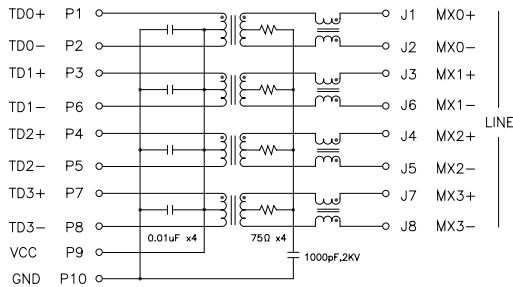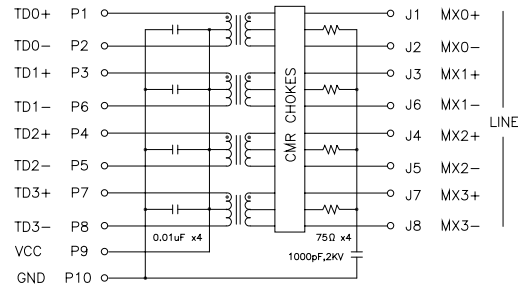## Single & Ganged Gigabit FastJack™ RJ-45 Connectors

HALO Electronics is pleased to offer this new series of small footprint Gigabit single and Ganged FastJack™, integrated connectors. This series is ideal for hi-density switch applications requiring the highest performance in a minimal amount of real estate. HALO's Gigabit FastJacks™ are compatible with all leading silicon vendors' Phy's. Please contact your local HALO Representative for more information.

Standard Choke Circuit

Enhanced Choke Circuit

Electrical Specifications @ 25°C

Operating Temp:	0 to +70°C	Return Loss (min):
Isolation Voltage:	1,500 Vrms	1-40Mhz -18dB
OCL (100KHz, 0.1Vrms, 8mA):	350uH min	60Mhz -14.5dB
CMR (0.1-100MHz):	-40dB typ	80Mhz -12dB
Insertion Loss (0.1-100MHz):	-1.1dB Max	100Mhz -10dB
Crosstalk (0.1-100MHz):	-[33-20log(F/100Mhz)]dB typ	

Patented Construction
US Pat Nbrs: 5,656,985; 6,297,721 B1; 6,297,720 B1; 6,320,489 B1; 6,344,785 B1

RoHS compliant versions are available.
Specify RoHS compliant product by adding the suffix "RL".

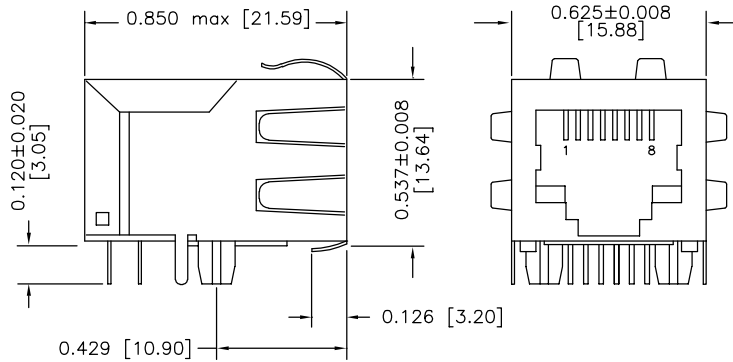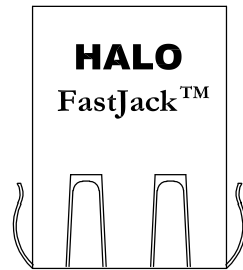| CMR Choke	Port Count		
	Single	Double	Quad
Standard Choke	HFJ11-1G01E	HFJ12-1G01E	HFJ14-1G01E
Enhanced Choke[1]	HFJ11-1G02E	HFJ12-1G02E	HFJ14-1G02E

Notes:
1. The Enhanced CMR Choke circuit provides a low impedance path to ground for improved noise immunity performance when needed. Impedance test data available upon request.

Please see individual data sheets for complete electrical specifications.

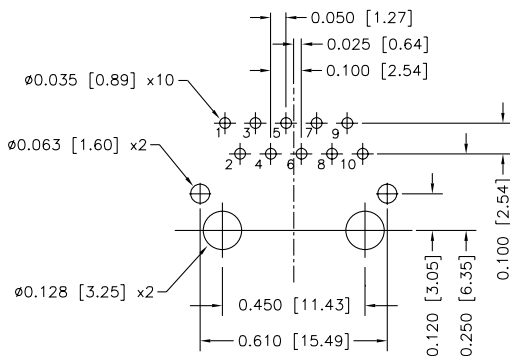# Single & Ganged Gigabit Fastjack™ RJ-45 Connectors

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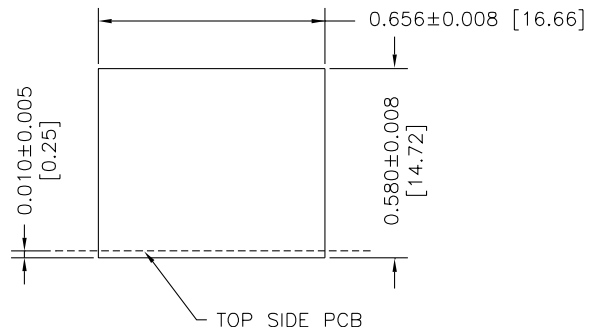
Single

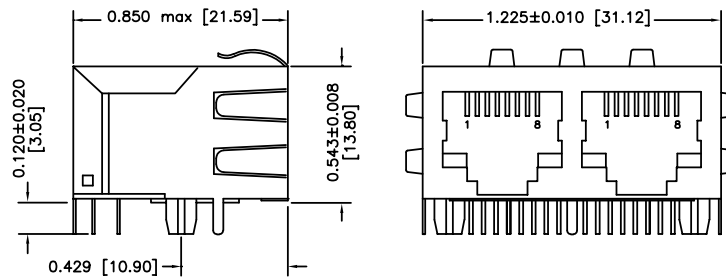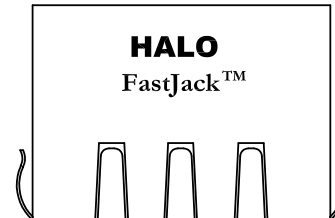Dimensions: Inch [mm]

Recommended PDB Pattern

Recommended Panel Cut-out

HALO ELECTRONICS, INC.

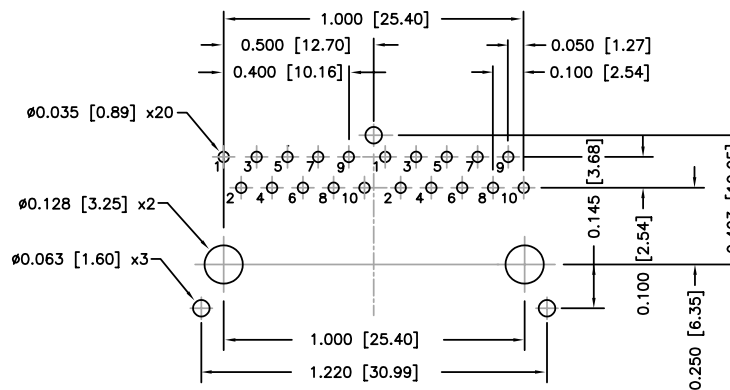## Single & Ganged Gigabit Fastjack™ RJ-45 Connectors

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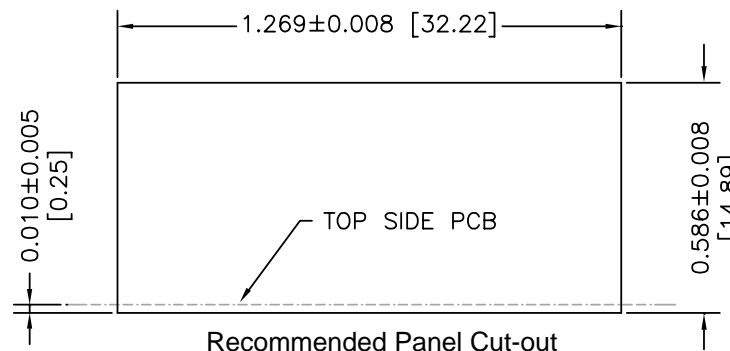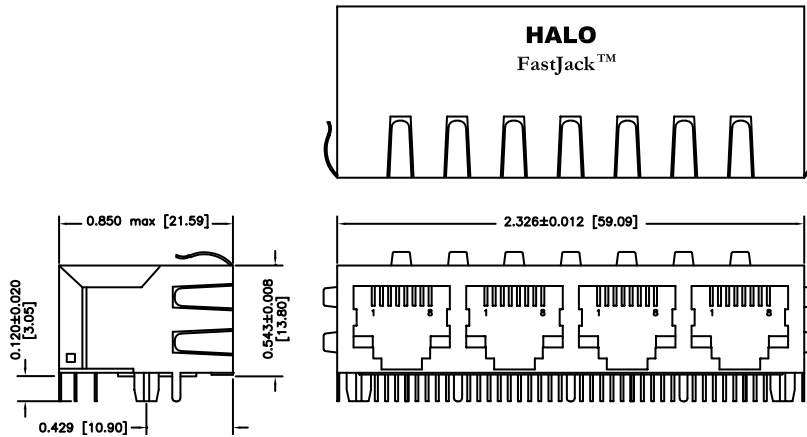
Double

HALO
FastJack™

0.850 max [21.59]

0.120±0.020 [3.05]

0.543±0.008 [13.80]

0.429 [10.90]

1.225±0.010 [31.12]

1   8   1   8

Dimensions: Inch [mm]

1.000 [25.40]
0.500 [12.70]
0.400 [10.16]
0.050 [1.27]
0.100 [2.54]

Ø0.035 [0.89] x20

Ø0.128 [3.25] x2

Ø0.063 [1.60] x3

1 3 5 7 9   1 3 5 7 9
2 4 6 8 10   2 4 6 8 10

[3.68]

0.145 [2.54]

0.100 [6.35]

0.250 [6.35]

0.403 [10.25]

1.000 [25.40]
1.220 [30.99]

Recommended PDB Pattern

1.269±0.008 [32.22]

0.010±0.005 [0.25]

0.586±0.008 [14.89]

TOP SIDE PCB

Recommended Panel Cut-out

Single & Ganged Gigabit
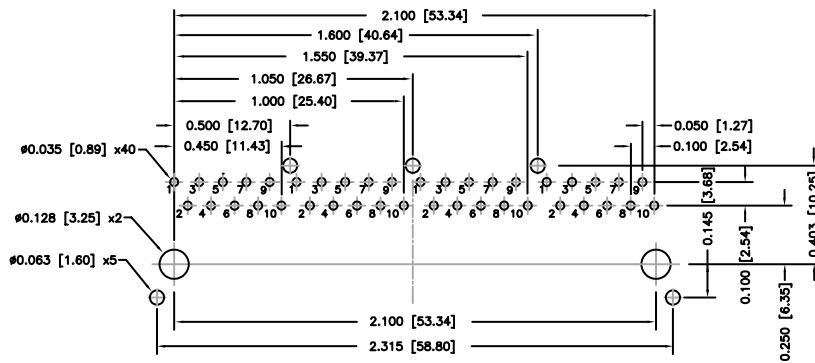# Fastjack™ RJ-45 Connectors

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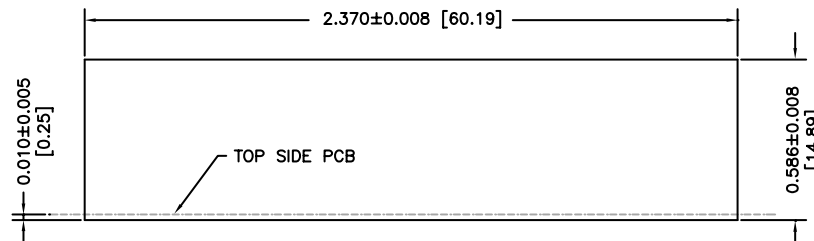
Quad

Dimensions: Inch [mm]

Recommended PDB Pattern

Recommended Panel Cut-out

HALO Electronics • 1861 Landings Drive, Mountain View, CA 94043 • PH: 650-903-3800
www.haloelectronics.com • info@haloelectronics.com • This Datasheet: fastjack-gigabit Rev. 3/06