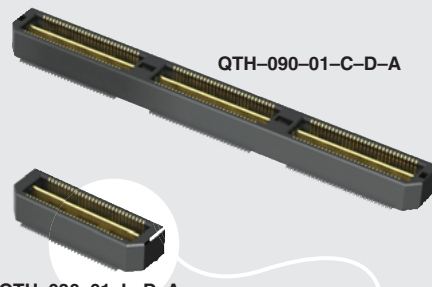




QTH-060-07-F-D-A



QTH-090-01-C-D-A

QTH-030-01-L-D-A

(0.50 mm) .0197"

QTH SERIES

HIGH SPEED GROUND PLANE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?QTH

Insulator Material: Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au or Sn over 50µ" (1.27 µm) Ni
Current Rating: Contact:

Contact:
 2 A per pin
 (1 pin powered per row)
Ground Plane:
 25 A per ground plane
 (1 ground plane powered)
Operating Temp Range:
 -55°C to +125°C
Voltage Rating:
 125 VAC (5 mm Stack Height)
Max Cycles: 100
RoHS Compliant: Yes

Processing:

Lead-Free Solderable: Yes
SMT Lead Coplanarity:
 (0.10 mm) .004" max (030-060)
 (0.15 mm) .006" max (090)
Board Stacking:
 For applications requiring
 more than two connectors per
 board contact jqd@samtec.com

RECOGNITIONS

For complete scope
of recognitions see
www.samtec.com/quality



ALSO AVAILABLE
(MOQ Required)

- 15 mm, 22 mm and 30 mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
 - 30μ" (0.76 μm) Gold (Specify -H plating for Data Rate cable mating applications.)
 - Edge Mount & Guide Posts
 - 80 (-DP), 120, 150 positions per row
 - Retention Option
- Contact Samtec.

Board Mates:
QSH

Cable Mates:
HQCD, HQDP
(See Also Available note)



QTH/QSH 5 mm Stack Height	Type	Rated @ 3dB Insertion Loss	
		with PCB effects*	w/o PCB effects**
Single-Ended Signaling	–D	9 GHz / 18 Gbps	9.5 GHz / 19 Gbps
Differential Pair Signaling	–D	8.5 GHz / 16 Gbps	10.5 GHz / 21 Gbps
Differential Pair Signaling	–DP	9.5 GHz / 19 Gbps	16.5 GHz / 33 Gbps

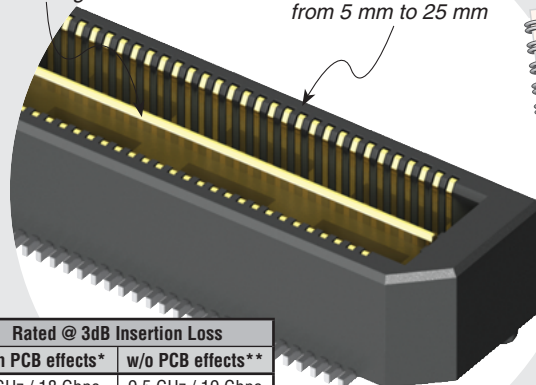
*Performance data includes effects of a non-optimized PCB.

**Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at www.samtec.com?QTH or contact sig@samtec.com

Integral metal plane for power or ground

Standard Stack Heights from 5 mm to 25 mm



Protocols Supported

100 GbE
Hypertransport™
XAUI
PCI Express®
SATA
InfiniBand™

Download app notes at
www.samtec.com/appnote
Contact SIG @ samtec.com
for questions on protocols



28+
Gbps

[illegible]

*Processing conditions will affect mated height.

***Note:** –C Plating passes
10 year MFG testing

Note: Some lengths, styles and options are non-standard, non-returnable.

OTHER SOLUTIONS

- Board Spacing Standoffs. See SO Series.

