



(0,50 mm) .0197"

QSH-060-01-L-D-DP-A

QSH-060-01-L-D-A-K



QSH-030-01-F-D-A

QSH SERIES

HIGH SPEED GROUND PLANE SOCKET

SPECIFICATIONS

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

Insulator Material:

Liquid Crystal Polymer

Contact Material:

Phosphor Bronze

Plating: Au or Sn over 50µ" (1,27 µm) Ni

Current Rating:

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 ipg@samtec.com

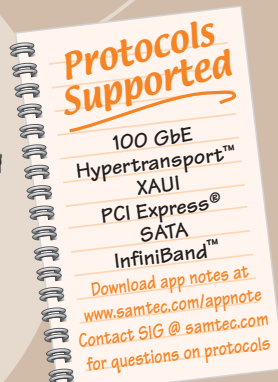
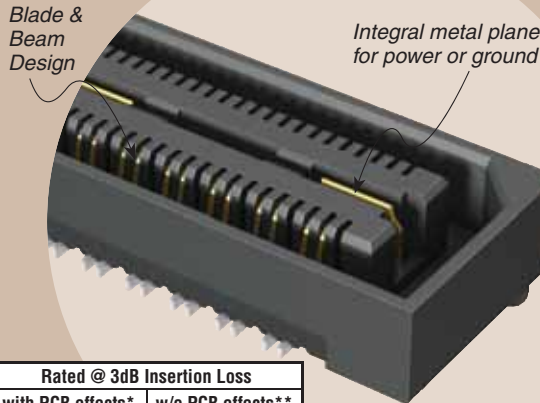
Board Mates:

QTH

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 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?QSH or contact sig@samtec.com



RECOGNITIONS

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



ALSO AVAILABLE (MOQ Required)

- 14 mm, 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.

QSH - **PINS PER ROW NO. OF PAIRS** - **01** - **PLATING OPTION** - **TYPE** - **A** - **OTHER OPTION**

-F
= Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails

-D
= Single-Ended

-D-DP
= Differential Pair (-01 only)

-K
= (8,25 mm) .325" DIA Polyimide Film Pick & Place Pad

-TR
= Tape & Reel (-090 positions maximum)

-L
= Latching Option (N/A on -060 (-D-DP) & -09 positions)

-030, -060, -090
(60 total pins per bank = -D)

-020, -040, -060
(20 pairs per bank = -D-DP)

-D = (No. of Pins per Row/30) x (20,00) .7875 + (1,27) .050
-DP = (No. of Pairs per Row/20) x (20,00) .7875 + (1,27) .050

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

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

QTH LEAD STYLE	MATED HEIGHT WITH QSH*
-01	(5,00) .197
-02	(8,00) .315
-03	(11,00) .433
-04	(16,00) .630
-05	(19,00) .748
-07	(25,00) .984

*Processing conditions will affect mated height.

OTHER SOLUTIONS

- Board Spacing Standoffs. See SO Series

Due to technical progress, all designs, specifications and components are subject to change without notice.

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