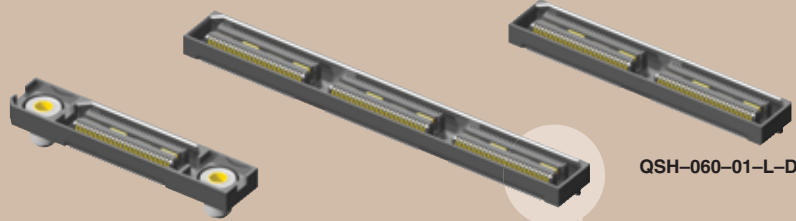




QSH-090-01-F-D-A



QSH-060-01-L-D-A


QSH-030-01-F-D-A-RT1

0,50mm HI-SPEED SOCKET QSH, CQSH SERIES

SPECIFICATIONS

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

QSH

Insulator Material: Liquid Crystal Polymer
Contact Material: Phosphor Bronze 
Plating: Au over 50µ" (1,27µm) Ni
Current Rating: Contact: 1.0A @ 30°C
 Temperature Rise
 Ground Plane: 7.8A @ 30°C
 Temperature Rise
Operating Temp Range: -55°C to +125°C
Voltage Rating: 125 VAC (5mm Stack Height)
Max Cycles: 100
Unmating Force (-RT1 option): -RT1 option increases unmating force up to 50%
RoHS Compliant: Yes

Processing:

Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x
Lead-Free Solderable: Yes
SMT Lead Coplanarity: (0,10mm) .004" max (030-060) (0,15mm) .006" max (090-120)
Board Stacking: For applications requiring more than two connectors per board or 120 positions or higher, contact ipg@samtec.com

Mates with: QTH, CQTH, HQCD
 (See Application Specific note)



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

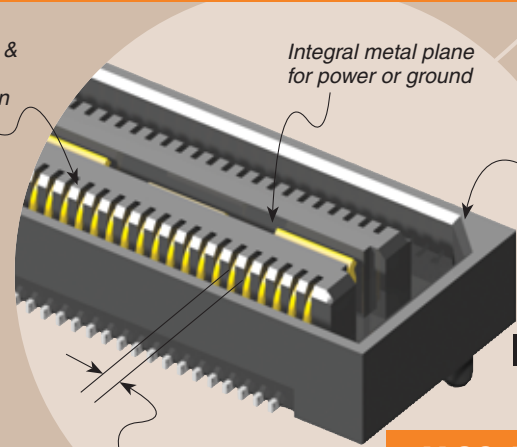
5mm Stack Height	Rated @ -3dB Insertion Loss
Single-Ended Signaling	9 GHz / 18 Gbps
Differential Pair Signaling	8 GHz / 16 Gbps

Performance data for other stack heights available at www.samtec.com?QSH

Blade & Beam Design

Integral metal plane for power or ground

Polarized



(0,50mm) .0197" pitch



ALSO AVAILABLE

Differential Pair version. See QSH-DP Series.
 Board Spacing Standoffs. See SO Series.

TYPE STRIP	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	A	OTHER OPTION
	-030, -060, -090, -120 (60 total positions per bank)		-L = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails (QSH only)			-K = (8,25mm) .325" DIA Polyimide Film Pick & Place Pad
			-F = Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails (QSH only)			-TR = Tape & Reel (-090 positions maximum) (QSH Series Only)
			-C = Electro-Polished Selective (CQSH only)			-RT1 = Retention Option (-090 positions maximum) (QSH Series Only)
	QSH (Requires -L or -F plating)					
	CQSH (Requires -C plating)					

SPECIFICATIONS

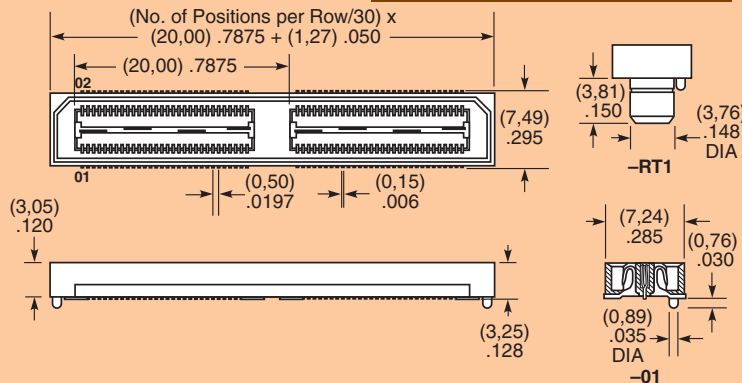
For complete specifications and recommended PCB layouts see www.samtec.com?CQSH

CQSH

Same as QSH except:
 UL & CSA certification pending
Plating: Electro-Polished Selective
Max Cycles: 25

APPLICATION SPECIFIC OPTION

- 14mm, 15mm, 22mm and 30mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
 - 30µ" (0,76µm) Gold (Specify -H plating for Data Rate cable mating applications. QSH only)
 - Edge Mount & Guide Posts (QSH only)
 - 150 positions per row (QSH only)
- Call Samtec.



STACK HEIGHTS

QTH LEAD STYLE	MATED HEIGHT WITH QSH
-01	(5,00) .198
-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.

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

WWW.SAMTEC.COM