



(0,635 mm) .025"

QSS SERIES

QSS-050-01-F-D-A

QSS-075-01-F-D-A

QSS-025-01-L-D-A

HIGH SPEED GROUND PLANE SOCKET

SPECIFICATIONS

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

Insulator Material:

Liquid Crystal Polymer

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over

50µ" (1,27 µm) Ni

Current Rating:

Contact: 1.1A per contact

@ 30°C Temperature Rise

Ground Plane: 7.8A per ground

plane @ 30°C Temperature Rise

Operating Temp:

-55°C to +125°C

Voltage Rating:

285 VAC

Max Cycles:

100

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10 mm) .004" max (025-050)

(0,15 mm) .006" max (075)

Board Stacking:

For applications requiring more

than two connectors per board

contact ipg@samtec.com



Board Mates:

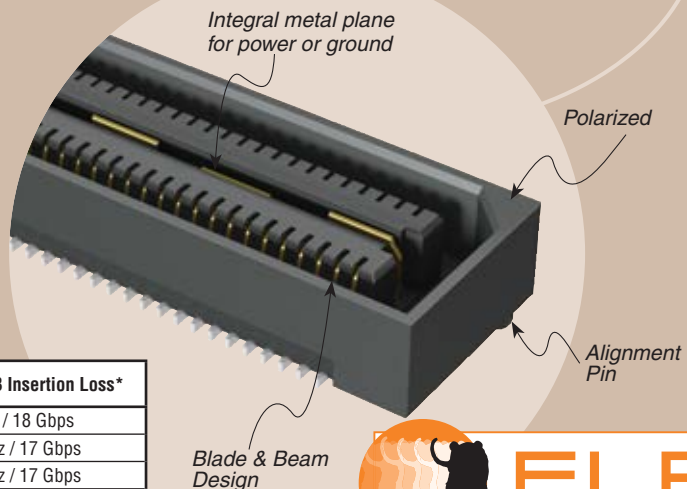
QTS

Cable Mates:

SQCD

QSS/QTS 5 mm Stack Height	Type	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	-D	9 GHz / 18 Gbps
Differential Pair Signaling	-D	8.5 GHz / 17 Gbps
Differential Pair Signaling	-DP	8.5 GHz / 17 Gbps

*Performance data includes effects of a non-optimized PCB.
Performance data for other stack heights and complete test data available at www.samtec.com?QSS or contact sig@samtec.com



ELP
EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 50µ" Gold
Call Samtec for maximum cycles mated with QTS

APPLICATION SPECIFIC OPTION

- 11 mm & 16 mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
- 30µ" (0,76 µm) Gold
- Differential Pair and "Partitionable" (combine differential & single-ended banks in same connector) available.
- 100 & 125 positions per row
- Edge Mount
- -LS2 Locking screw hole for QTS-RA-LS2

*Note: -C Plating passes 10 year MFG testing

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

QSS	NO. OF POSITIONS PER ROW	01	PLATING OPTION	D	A	OTHER OPTION
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-025, -050, -075
(50 total positions per bank)

-F

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

-L

= 10µ" (0,25 µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails

-C*

= Electro-Polished Selective
50µ" (1,27 µm) min Au over 150µ" (3,81 µm) Ni on Signal Pins in contact area,
10µ" (0,25 µm) min Au over 50µ" (1,27 µm) Ni on Ground Plane in contact area, Matte Tin over 50µ" (1,27 µm) min Ni on all solder tails

-GP

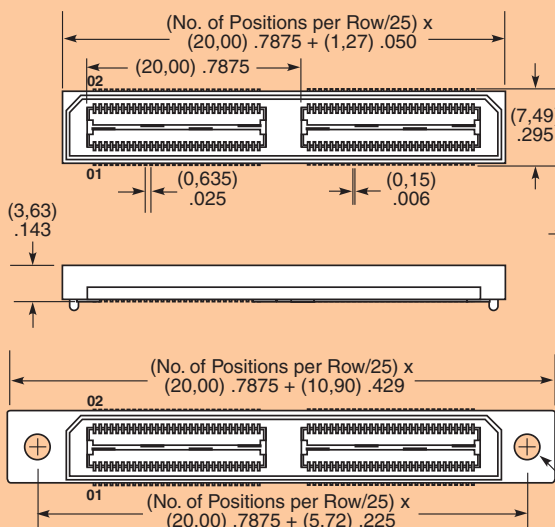
= Guide Holes for mating with QTS-RA

-K

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

-TR

= Tape and Reel



ALSO AVAILABLE

• 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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