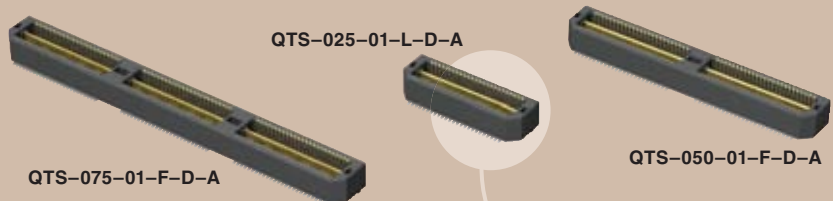


(0,635mm) .025"

QTS SERIES



# HIGH SPEED GROUND PLANE HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com/QTS](http://www.samtec.com/QTS)

### Insulator Material:

Liquid Crystal  
Polymer

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over 50µ" (1,27µm) Ni

### Current Rating:

Contact: 1.1A @ 30°C

### Temperature Rise

Ground Plane: 7.8A @ 30°C

### 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:

(0,10mm) .004" max (025-075)

(0,15mm) .006" max (100)

### Board Stacking:

For applications requiring more than two connectors per board or 100 positions or higher, contact [ipg@samtec.com](mailto:ipg@samtec.com)



### Board Mates:

QSS

### Cable Mates:

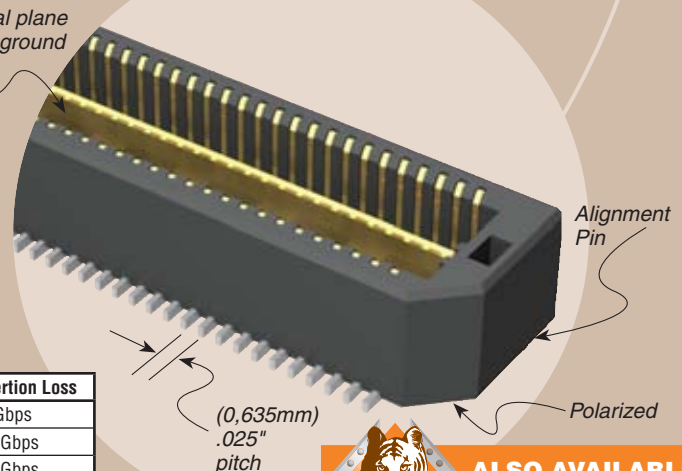
SQCD



5mm 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 for other stack heights and complete test data available at [www.samtec.com/QTS](http://www.samtec.com/QTS) or contact [sig@samtec.com](mailto:sig@samtec.com)

Integral metal plane  
for power or ground



ALSO AVAILABLE

• Board spacing  
standoffs  
(See SO Series)

## APPLICATION SPECIFIC OPTION

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

QTS — NO. OF POSITIONS PER ROW — LEAD STYLE — PLATING OPTION — D — A — OTHER OPTION

-025, -050, -075, -100  
(50 total positions per bank)

Specify  
LEAD  
STYLE  
from  
chart.

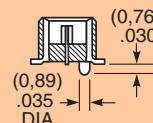
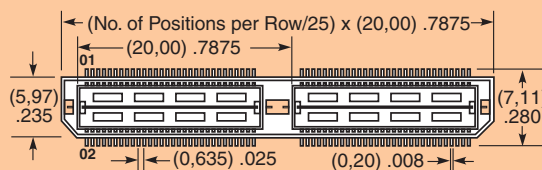
**-F**  
= Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails

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

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

**-K**  
= (7,00mm) .275" DIA Polyimide film Pick & Place Pad

**-TR**  
= Tape & Reel (-075 positions maximum)



STACK HEIGHTS		
LEAD STYLE	A	MATED HEIGHT
-01	(4,27) .168	(5,00) .197
-02	(7,26) .286	(8,00) .315

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.

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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