



(0,635 mm) .025"

QTS SERIES

HIGH SPEED GROUND PLANE HEADER

SPECIFICATIONS

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

Insulator Material:

Liquid Crystal Polymer

Contact Material:

Phosphor Bronze

Plating:

Au or Sn over

50μ" (1,27 μm) Ni

Current Rating:

Contact:

1.8 A per pin

(1 pin powered per row)

Ground Plane:

23.1 A per ground plane

(1 ground plane powered)

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 (025-075)

Board Stacking:

For applications requiring more than two connectors per board contact ipg@samtec.com

RECOGNITIONS

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



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

- 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

Contact Samtec.

*Note: -C Plating passes 10 year MFG testing

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

Board Mates:
QSS

Cable Mates:
SQCD



| QTS/QSS 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.

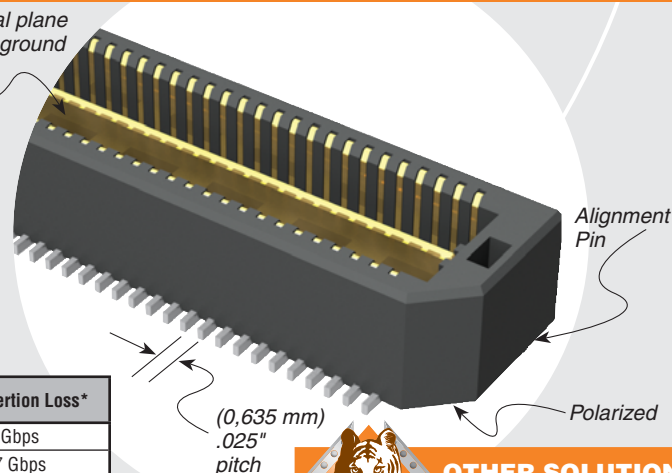
Performance data for other stack heights and complete test data available at www.samtec.com?QTS or contact sig@samtec.com

Integral metal plane
for power or ground

QTS-025-01-L-D-A

QTS-075-01-F-D-A

QTS-050-01-F-D-A



(0,635 mm)
.025"
pitch

Alignment
Pin

Polarized



OTHER SOLUTIONS

• Board spacing
standoffs
(See SO Series)

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

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

Specify
LEAD
STYLE
from
chart.

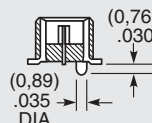
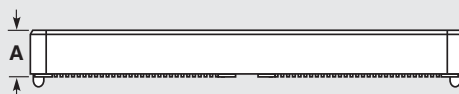
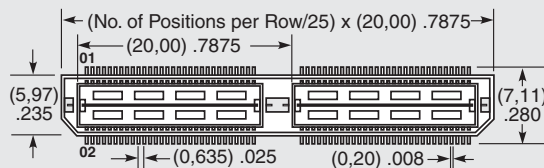
-F
= Gold Flash on Signal Pins
and Ground Plane,
Matte Tin on tails

-L
= 10μ" (0,25 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

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

-TR
= Tape & Reel



| 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.