

(0.635 mm) .025"

QFSS-052-04.25-L-D-PC4

QFSS-078-04.25-L-D-A

QFSS-026-04.25-L-D-A

QFSS SERIES

# SHIELDED GROUND PLANE SOCKET

## SPECIFICATIONS

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

### Insulator Material:

Liquid Crystal Polymer

### Contact, Ground Plane & Shield Material:

Phosphor Bronze

### Plating:

Au over 50µ" (1.27 µm) Ni

(Tin on Ground Plane tails)

### Voltage Rating:

300 VAC mated with QMSS

### Operating Temp:

-55°C to +125°C

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable: Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (026-078)

### Board Stacking:

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

Board Mates:  
QMSS

## RUGGEDIZED

BY SAMTEC

- Increased insertion depth
- Integral guide post

| QMSS/QFSS<br>11 mm Stack Height | Type  | Rated @ 3dB<br>Insertion Loss* |
|---------------------------------|-------|--------------------------------|
| Single-Ended Signaling          | -D    | 6 GHz / 12 Gbps                |
| Differential Pair Signaling     | -D    | 7 GHz / 14 Gbps                |
| Differential Pair Signaling     | -D-DP | 7.5 GHz / 15 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?QFSS](http://www.samtec.com?QFSS) or contact [sig@samtec.com](mailto:sig@samtec.com)

Standard shield grounding is GSSSSG. Application Specific options available.

Increased insertion depth for rugged applications

11 mm  
Stack Height

Single-Ended  
Signal routing

(1.30 mm)

.051"

NOMINAL

WIPE

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



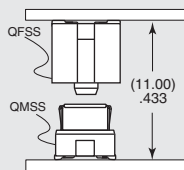
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## ALSO AVAILABLE (MOQ Required)

- Headers without Alignment Pins
- 8 Power Pins/End
- 4 or 8 Power Pins/End for (2.36 mm) .093" thick board
- Guide Holes
- 64 (-DP) and 104 pins per row

Contact Samtec.

## APPLICATION



Note: Patented

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

QFSS — PINS PER ROW NO. OF PAIRS — 04.25 — PLATING OPTION — TYPE — A — OTHER OPTION

-026, -052, -078

(52 total pins per bank  
40 signals + 12 grounds to shield = -D)

-016, -032, -048

(16 pairs per bank = -D-DP)

-L

= 10µ" (0.25 µm)  
Gold on Signal Pins, Shield and Ground Plane  
(Tin on Signal Pin tails, and Ground Plane tails)

-D

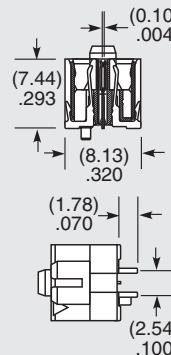
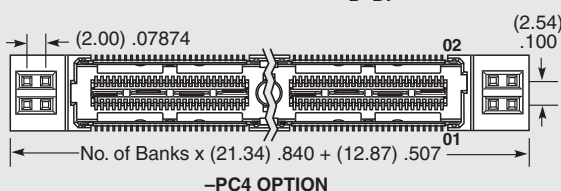
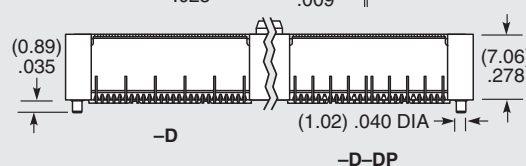
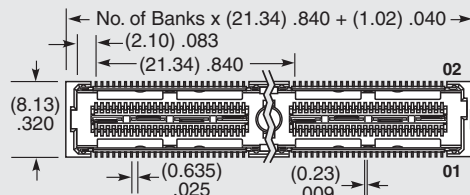
= Single-Ended

-D-DP

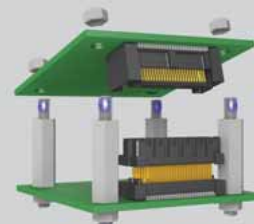
= Differential Pair

-PC4

= 4 Power Pins/End  
(N/A with -A)



## OTHER SOLUTIONS



See SO Series for precision machined standoffs.