

(0,635mm) .025"

QFSS SERIES



QFSS-052-04.25-L-D-PC4

QFSS-078-04.25-L-D-A

QFSS-026-04.25-L-D-A

SHIELDED GROUND PLANE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/QFSS

Insulator Material:

Liquid Crystal
Polymer

Contact, Ground Plane & Shield Material:

Phosphor Bronze

Plating:

Au over 50µ" (1,27µm) Ni
(Tin on Ground Plane tails)

Current Rating:

Signal Contact: 1.8A @ 80°C
Power Contact: 3.95A @ 80°C
Ground Plane: 8.9A @ 80°C

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:

(0,10mm) .004" max (026-078)

(0,15mm) .006" max (104)

Board Stacking:

For applications requiring more than two connectors per board or 4 banks or more, contact ipg@samtec.com



- Increased insertion depth
- Integral guide post

Board Mates:
QMSS

Cable Mates:
6QDPS

QMSS/QFSS 11mm Stack Height	Type	Rated @ 3dB 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 or contact sig@samtec.com

Standard shield grounding is GSSSSG. Application Specific options available.

Increased insertion depth for rugged application

11mm
Stack Height

Single-Ended
Signal routing.



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

-026, -052, -078, -104

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

-016, -032, -048, -064

(16 pairs per bank = -D-DP)

-L

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

-D

= Single-Ended

-D-DP

= Differential Pair

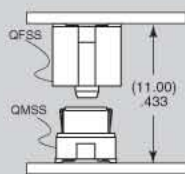
-PC4

= 4 Power
Pins/End
(N/A with
-104 or -A)

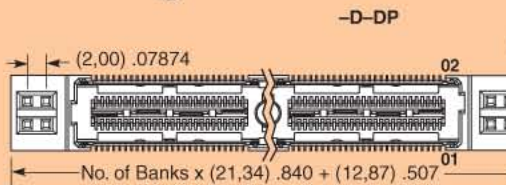
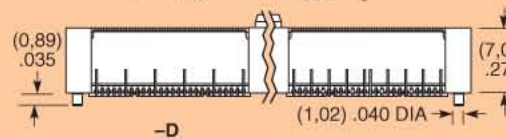
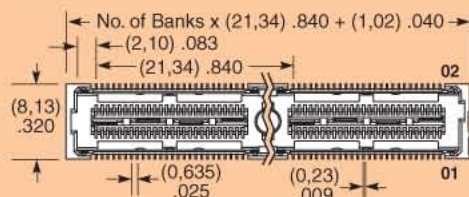
APPLICATION SPECIFIC OPTION

- Headers without Alignment Pins
- 8 Power Pins/End
- 4 or 8 Power Pins/End for (2,36mm) .093" thick board
- Guide Holes
- Hot Pluggable
- Call Samtec.

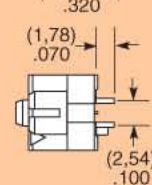
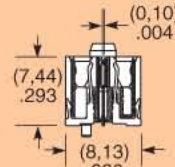
APPLICATION



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



-PC4 OPTION



APPLICATIONS



See SO Series for precision machined standoffs.

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

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