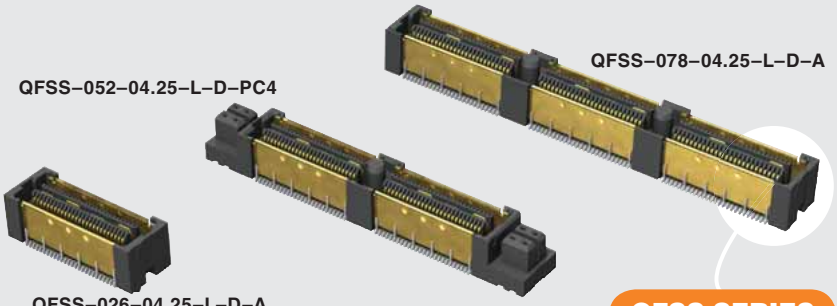
samtec

Q2™

(0.635 mm) .025"



QFSS SERIES

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" (1.27 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

RECOGNITIONS

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

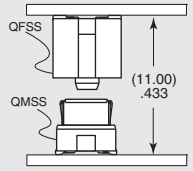
FILE NO. E111594

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



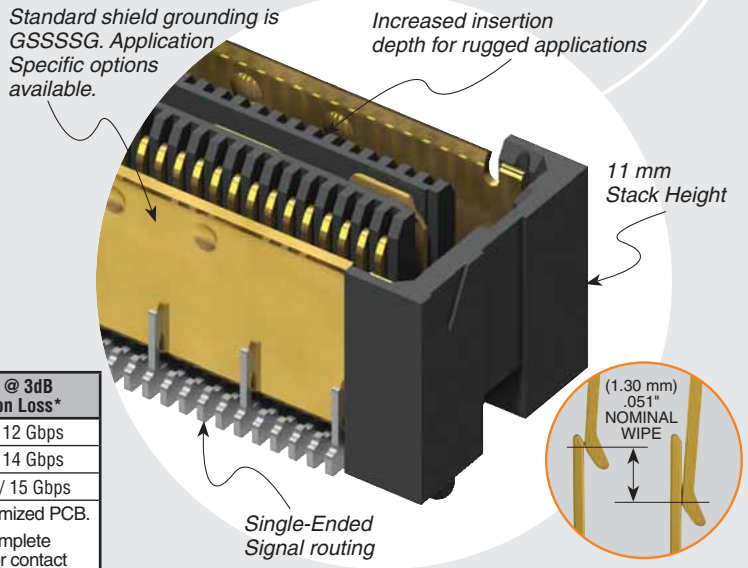
Note: Patented

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

Board Mates:
QMSS

RUGGEDIZED BY SAMTEC

- Increased insertion depth
- Integral guide post



QMSS/QFSS 11 mm 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

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)

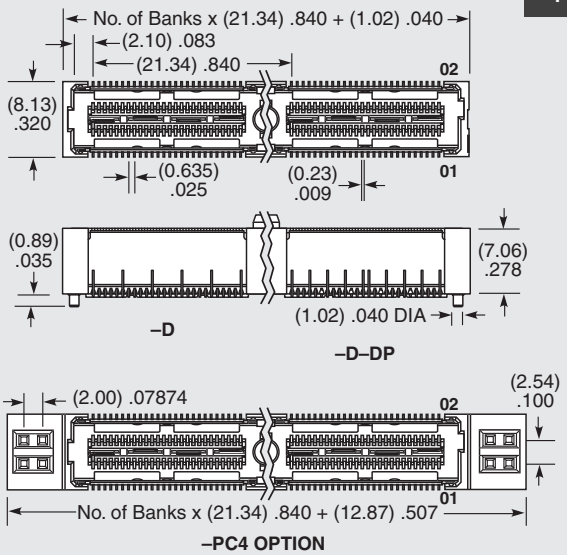
–016, –032, –048
(16 pairs per bank = –D–DP)

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

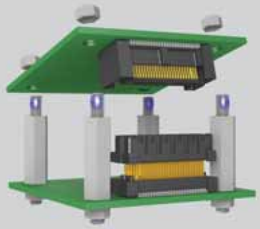
–D
= Single-Ended

–D–DP
= Differential Pair

–PC4
= 4 Power Pins/End (N/A with –A)



OTHER SOLUTIONS



See SO Series for precision machined standoffs.

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