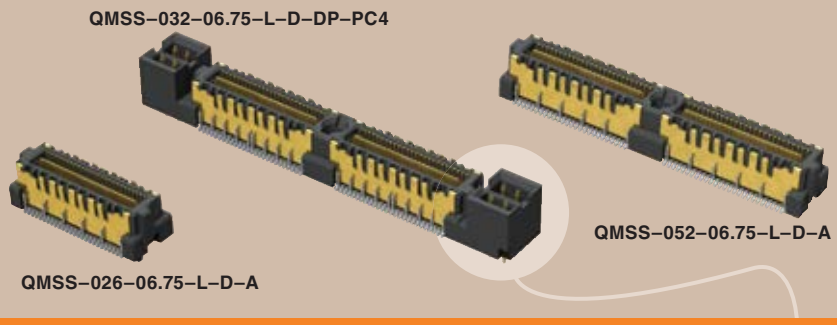
samtec

Q2™

(0,635 mm) .025"

QMSS SERIES



SHIELDED GROUND PLANE HEADER

SPECIFICATIONS

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

Insulator Material:
Liquid Crystal Polymer
FILE NO. E111594

Terminal, Ground Plane & Shield Material:
Phosphor Bronze

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

Current Rating:
Signal Contact:
1.8A per contact @ 80°C
Power Contact:
3.95A per power contact @ 80°C
Ground Plane:
8.9A per ground plane @ 80°C

Voltage Rating:
300 VAC mated with QFSS

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)

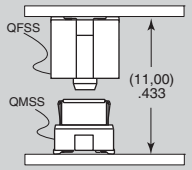
Board Stacking:
For applications requiring more than two connectors per board, contact ipg@samtec.com

APPLICATION SPECIFIC OPTION

- Headers without Alignment Pins
- 8 Power Pins/End
- 4 or 8 Power Pins/End for (2,36 mm) .093" thick board
- Guide Post
- Edge Mount
- Hot Pluggable
- 64 (-DP) and 104 pins per row

Call Samtec.

APPLICATION



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

Board Mates:
QFSS

Cable Mates:
6QDPS

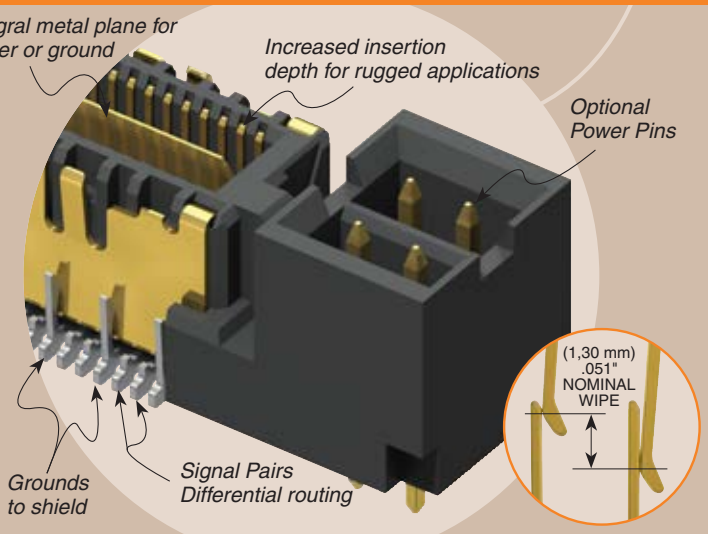
RUGGEDIZED by SAMTEC

- 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?QMSS or contact sig@samtec.com



QMSS	–	PINS PER ROW NO. OF PAIRS	–	06.75	–	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)

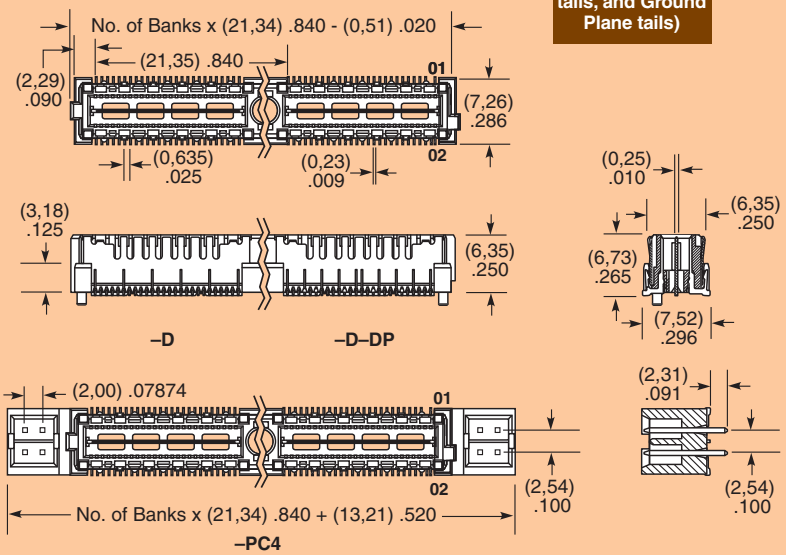
–L
= 10µ" (0,25 µm) Gold on Signal Pins, Shield and Ground Plane
(Tin on Signal Pin tails, and Ground Plane tails)

–D
= Single-Ended

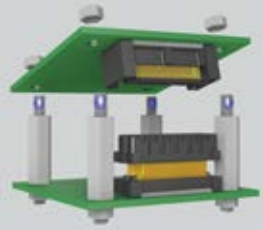
–D–DP
= Differential Pair

–K
= (5,50 mm) .217" DIA Polyimide film Pick & Place Pad (N/A with –PC4)

–PC4
= 4 Power Pins/End (N/A with –A)



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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