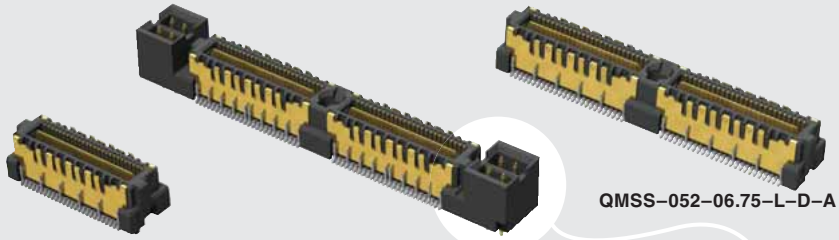
samtec

Q2™

(0.635 mm) .025"

QMSS–032–06.75–L–D–DP–PC4



QMSS–026–06.75–L–D–A

QMSS–052–06.75–L–D–A

QMSS SERIES

# SHIELDED GROUND PLANE HEADER

## SPECIFICATIONS

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

**Insulator Material:**
Liquid Crystal Polymer
**Terminal, Ground Plane & Shield Material:**
Phosphor Bronze
**Plating:**
Au over 50µ" (1.27 µm) Ni
(Tin on Ground Plane Tail)
**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

## RECOGNITIONS

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

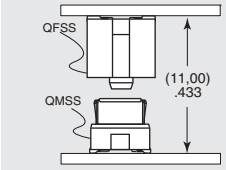
FILE NO. E111594

## 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 Post
- Edge Mount
- 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:**
QFSS

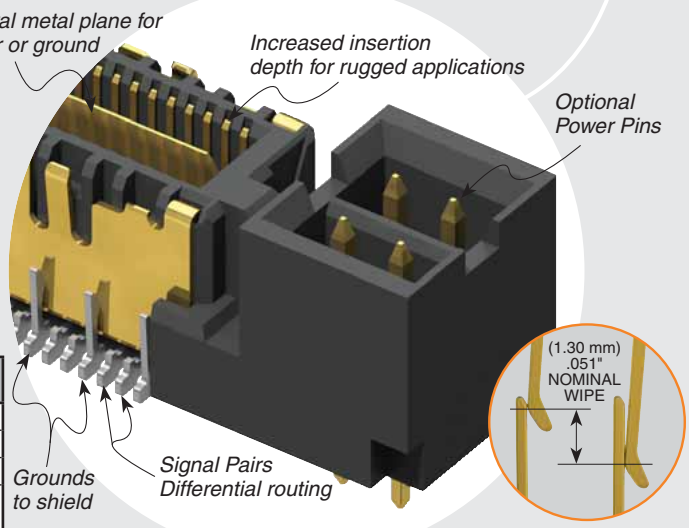
RUGGEDIZED BY SAMTEC

- 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

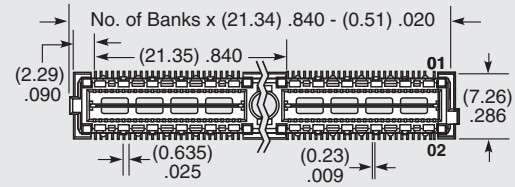
(Tin on Signal Pin tails, and Ground Plane tails)

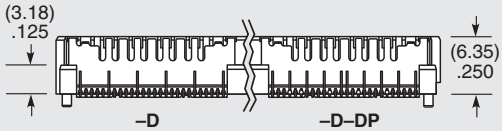
**–D**
= Single-Ended

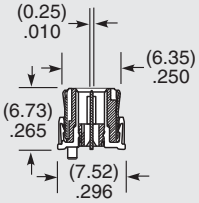
**–D–DP**
= Differential Pair

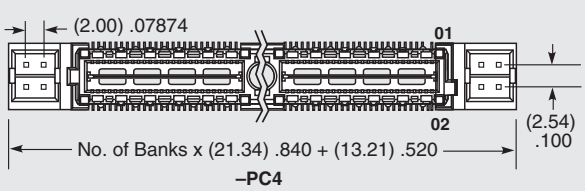
**–K**
= (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (N/A with –PC4)

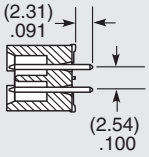
**–PC4**
= 4 Power Pins/End (N/A with –A)




## OTHER SOLUTIONS

See SO Series for precision machined standoffs.



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