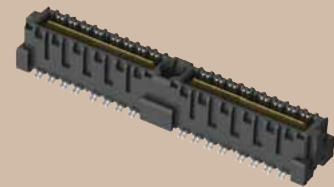


QMS-026-06.75-L-D-A



(0,635 mm) .025"

QMS SERIES

# RUGGED GROUND PLANE HEADER

## SPECIFICATIONS

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

### Insulator Material:

Liquid Crystal Polymer

### Terminal & Ground Plane Material:

Phosphor Bronze

### Plating:

Au over 50µ" (1,27 µm) Ni

(Tin on Ground Plane Tail)

### Current Rating:

Contact:

2.6 A per pin

(1 pin powered per row)

Ground Plane:

15.7 A per ground plane

(1 ground plane powered)

### Voltage Rating:

300 VAC mated with QFS

### Operating Temp:

-55°C to +125°C

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable: Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max (026-052)

(0,15 mm) .006" max (078)

### Board Stacking:

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

### Board Mates:

QFS

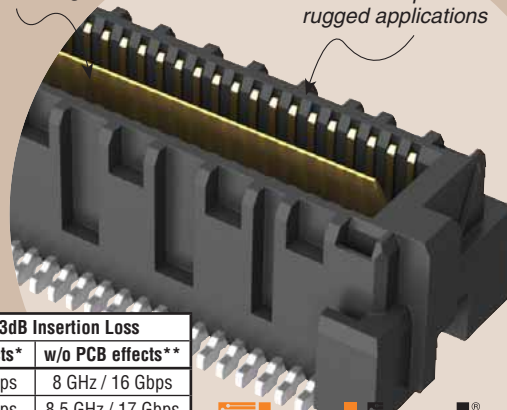
### Cable Mates:

6QCD



Integral metal plane for power or ground

Increased insertion depth for rugged applications



| QMS/QFS<br>10 mm Stack Height | Type | Rated @ 3dB Insertion Loss |                   |
|-------------------------------|------|----------------------------|-------------------|
|                               |      | with PCB effects*          | w/o PCB effects** |
| Single-Ended Signaling        | -D   | 9 GHz / 18 Gbps            | 8 GHz / 16 Gbps   |
| Differential Pair Signaling   | -D   | 8 GHz / 16 Gbps            | 8.5 GHz / 17 Gbps |
| Differential Pair Signaling   | -DP  | 7.5 GHz / 15 Gbps          | 9 GHz / 18 Gbps   |

\*Performance data includes effects of a non-optimized PCB.

\*\*Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at [www.samtec.com?QMS](http://www.samtec.com?QMS) or contact [sig@samtec.com](mailto:sig@samtec.com)

**Final**  
CERTIFIED

**28+**  
Gbps

## ALSO AVAILABLE (MOQ Required)

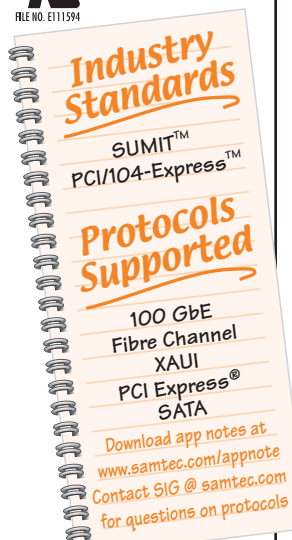
- Other platings
  - Guide Posts
  - Without PCB Alignment Pins (05.75 and 06.75 only)
  - Hot Pluggable
  - 64 (-DP) and 104 positions per row
- Contact Samtec.

## RECOGNITIONS

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



FILE NO. E111594



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

**QMS**

**PINS PER ROW NO. OF PAIRS**

**LEAD STYLE**

**PLATING OPTION**

**TYPE**

**A**

**OTHER OPTION**

**-026, -052, -078**  
(52 total pins per bank = -D)

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

| MATED HEIGHT* |             |                |        |
|---------------|-------------|----------------|--------|
| LEAD STYLE    | A           | QFS LEAD STYLE |        |
|               |             | -04.25         | -06.25 |
| -05.75        | (5,38) .212 | 10 mm          | 12 mm  |
| -06.75        | (6,35) .250 | 11 mm          | 13 mm  |
| -09.75        | (9,35) .368 | 14 mm          | 16 mm  |

\*Processing conditions will affect mated height.

**-L**  
(-05.75 and -06.75 lead style only)  
= 10µ" (0,25 µm) Gold on Signal Pins and Ground Plane (Tin on Signal Pin tails, and Ground Plane tails)

**-SL**  
(-09.75 lead style only)  
= 10µ" (0,25 µm) Gold on Signal Pins 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

**APPLICATION**

Requires Standoff  
SO-1524-03-01-01-L for 15,24 mm or SO-2215-02-01-01-L for 22 mm board spacing. Connectors designed to not fully seat when mated.

| INDUSTRY STANDARD | INTERCONNECTS |               |       |              |
|-------------------|---------------|---------------|-------|--------------|
|                   | TERMINAL      | SOCKET        | BANKS | STACK HEIGHT |
| SUMIT™            | ASP-129637-01 | ASP-129646-01 | 1     | 15,24 mm     |
| PCI/104-Express™  | ASP-129637-03 | ASP-129646-03 | 3     | 15,24 mm     |
| PCI/104-Express™  | ASP-142781-02 | ASP-129646-02 | 2     | 22 mm        |
| PCI/104-Express™  | ASP-142781-03 | ASP-129646-03 | 3     | 22 mm        |

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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