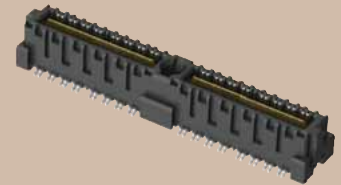


QMS-026-06.75-L-D-A



(0,635 mm) .025"

QMS SERIES

RUGGED GROUND PLANE HEADER

SPECIFICATIONS

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

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

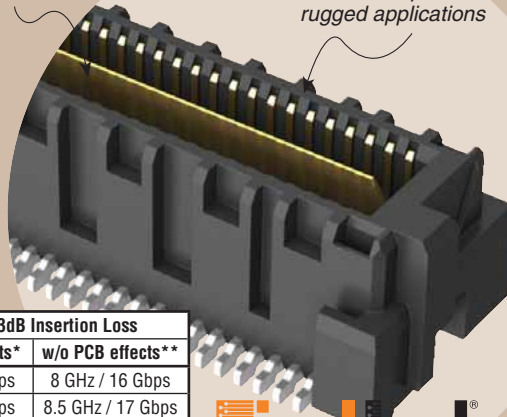
Board Mates:
QFS

Cable Mates:
6QCDC



Integral metal plane for power or ground

Increased insertion depth for rugged applications



| QMS/QFS 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 or contact sig@samtec.com

Final Inch
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



FILE NO. E111594

Industry Standards

- SUMIT™
- PCI/104-Express™

Protocols Supported

- 100 GbE
- Fibre Channel
- XAUI
- PCI Express®
- SATA

Download app notes at www.samtec.com/appnote
Contact SIG @ samtec.com for questions on protocols

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)

Specify LEAD STYLE from chart

-L
(-09.75 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)

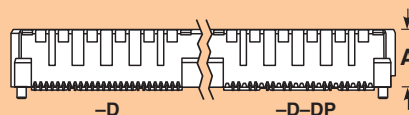
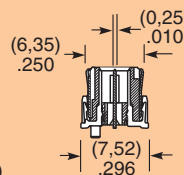
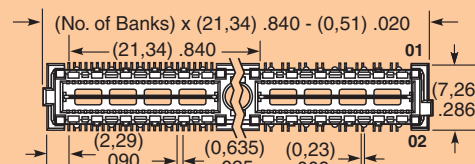
-D
= Single-Ended

-D-DP
= Differential Pair

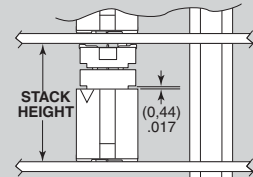
-K
= (5,50 mm) .217" DIA Polyimide film Pick & Place Pad

| 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.



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 | | | STACK HEIGHT |
|-------------------|---------------|---------------|-------|--------------|
| | TERMINAL | SOCKET | BANKS | |
| 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