

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:**

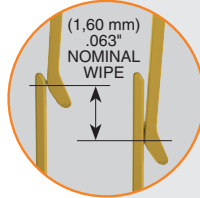
For applications requiring more than two connectors per board, contact [ipg@samtec.com](mailto:ipg@samtec.com)

**Board Mates:**

QFS

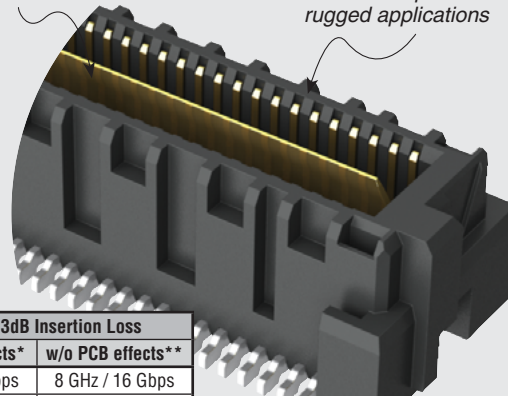
**Cable Mates:**

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](http://www.samtec.com?QMS) or contact [sig@samtec.com](mailto:sig@samtec.com)

## 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.



28+ Gbps

## RECOGNITIONS

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



FILE NO. E111594

**Industry Standards**

SUMIT™  
PCI/104-Express™

**Protocols Supported**

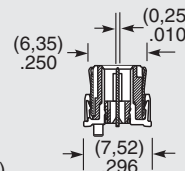
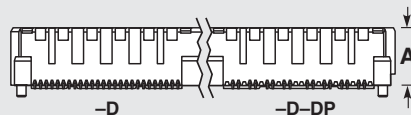
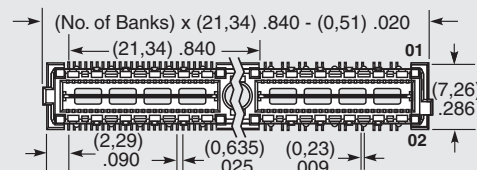
100 GbE  
Fibre Channel  
XAUI  
PCI Express®  
SATA

Download app notes at  
[www.samtec.com/appnote](http://www.samtec.com/appnote)  
Contact SIG @ samtec.com  
for questions on protocols

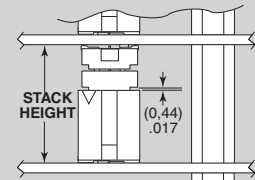
QMS	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTION
-026, -052, -078	(52 total pins per bank = -D)	Specify LEAD STYLE from chart	-L (-05.75 and -06.75 lead style only) = 10µ" (0,25 µm) Gold on Signal Pins and Ground Plane (Tin on Signal Pin tails, and Ground Plane tails)	-D = Single-Ended	-D-DP = Differential Pair	-K = (5,50 mm) .217" DIA Polyimide film Pick & Place Pad
-016, -032, -048	(16 pairs per bank = -D-DP)					

LEAD STYLE	A	MATED HEIGHT*	
		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

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