

(0.635 mm) .025"

RUGGED GROUND PLANE SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/QFS

Insulator Material:

Liquid Crystal Polymer

Contact & Ground

Plane Material:

Phosphor Bronze

Plating:

Au over 50 μ " (1.27 μ m) Ni

(Tin on Ground Plane Tail)

Current Rating:

Contact:

2.6 A per pin

(2 pins powered)

Ground Plane:

15.7 A per ground plane

(1 ground plane powered)

Voltage Rating:

300 VAC mated with QMS

Operating Temp:

-55 °C to +125 °C

RoHS Compliant:

Yes

Board Mates:

QMS

Cable Mates:

6QCD

Standoffs:

SO, JSOM

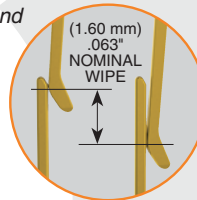
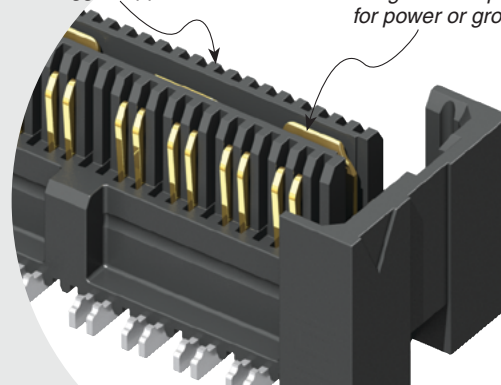
POWER/SIGNAL APPLICATION



Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

Increased insertion depth for rugged applications

Integral metal plane for power or ground



HIGH-SPEED CHANNEL PERFORMANCE

QMS-DP/QFS-DP @ 10 mm Mated Stack Height

Rating based on Samtec reference channel.

For full SI performance data visit Samtec.com or contact SIG@samtec.com

25
Gbps

ALSO AVAILABLE (MOQ Required)

- Other platings
- Without PCB Alignment Pins
- Hot Pluggable
- 4 banks (104 -SE, 64 -DP)

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



STANDARDS

- SUMIT™
- PCI/104-Express™
- PCI/104-Express™ OneBank

Visit www.samtec.com/standards for more information.

Note:

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

QFS — 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

(—04.25 lead style only)
= 10 μ " (0.25 μ m) Gold on Signal Pins and Ground Plane (Tin on Signal Pin tails, and Ground Plane tails)

—SL

(—06.25 lead style only)
= 10 μ " (0.25 μ m) Gold on Signal Pins and Ground Plane (Tin on Signal Pin tails, and Ground Plane tails)

—D

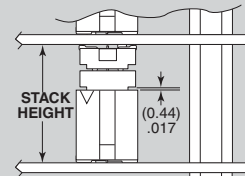
= Single-Ended

—D-DP

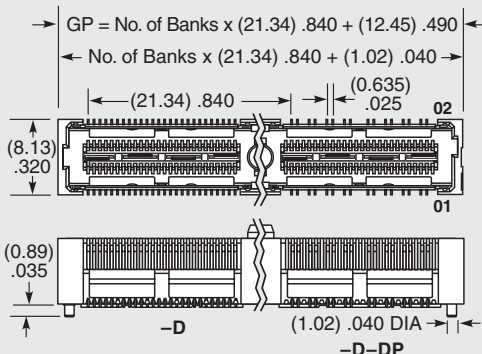
= Differential Pair (—04.25 lead style only)

—GP
= Guide Holes (—04.25 lead style only)

APPLICATION



Requires Standoff
SO-1524-03-01-01-L or
JSOM-1524-02 for 15.24 mm
or SO-2215-02-01-01-L for 22 mm
board spacing. Connectors designed to not fully seat when mated.



MATED HEIGHT*					
LEAD STYLE	A	QMS LEAD STYLE			
		—05.75	—06.75	—09.75	
—04.25	(7.44) .293	10 mm	11 mm	14 mm	
—06.25	(9.42) .371	12 mm	13 mm	16 mm	

*Processing conditions will affect mated height. See SO Series for board space tolerances.

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-129637-13	ASP-129646-22	1	15.24 mm	
PCI/104-Express™	ASP-142781-01	ASP-129646-01	1	22 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.

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All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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Samtec:

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