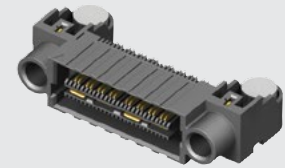


QFS-016-01-SL-D-DP-RA



**QFS-RA SERIES**

**(0.635 mm) .025"**

# RIGHT-ANGLE GROUND PLANE SOCKET

## SPECIFICATIONS

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

**Insulator Material:**  
Liquid Crystal Polymer

**Terminal & Ground Plane Material:**  
Phosphor Bronze

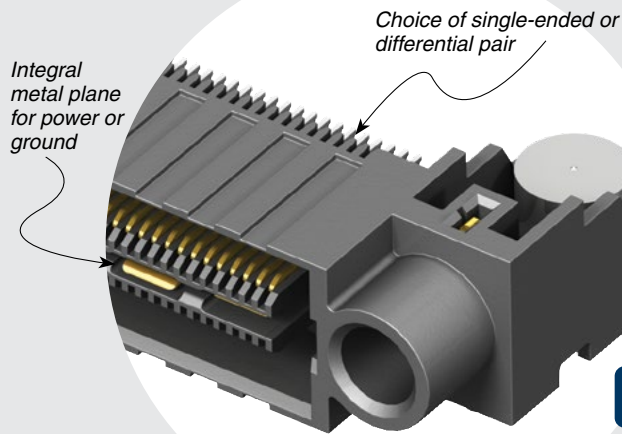
**Plating:**  
Au over 50 μ" (1.27 μm) Ni  
(Tin on Ground Plane Tail)

**Voltage Rating:**  
300 VAC

**Operating Temp:**  
-55 °C to +125 °C

**RoHS Compliant:**  
Yes

**Board Mates:**  
QMS



**RUGGEDIZED**  
BY SAMTEC

- Increased insertion depth
- Integral guide post
- PCB mounting pins

## PROCESSING

**Lead-Free Solderable:**  
Yes

**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (026-052)  
(0.15 mm) .006" max (078)\*  
\*(.004" stencil solution may be available; contact IPG@samtec.com)

## RECOGNITIONS

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



## HIGH-SPEED CHANNEL PERFORMANCE

**QFS-RA/QMS or QFS-RA/QMS-RA**

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**14**  
Gbps

**QFS**

**PINS PER ROW  
NO. OF PAIRS**

**01**

**PLATING  
OPTION**

**TYPE**

**RA**

**OTHER  
OPTION**

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

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

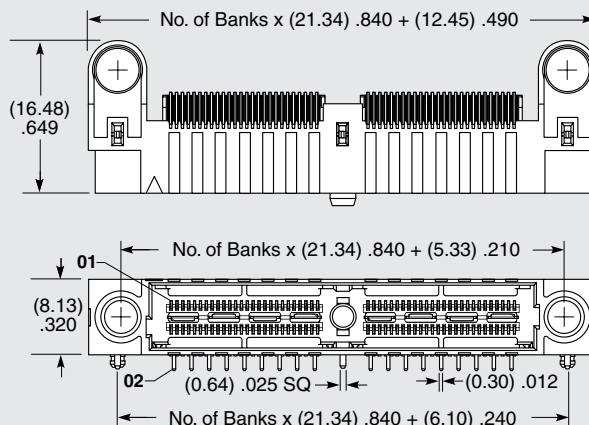
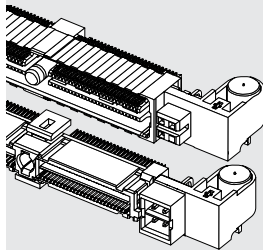
**-SL**  
= 10 μ" (0.25 μm)  
Gold on Signal Pins and Ground Plane,  
Matte Tin on tails

**-D**  
= Single-Ended  
**-D-DP**  
= Differential Pair

**-K**  
= Polyimide film  
Pick & Place Pad  
**-TR**  
= Tape & Reel  
(-016, -026,  
-032 & -052  
positions only)

## OTHER SOLUTIONS

Combination Signal/Power  
See QMS-RA-PC Series or  
QFS-RA-PC Series



## ALSO AVAILABLE (MOQ Required)

- Other platings
  - Plastic Guide Post option
  - -02 lead style for (2.36 mm) .093" thick board
  - 64 (-DP) and 104 positions per row
- Contact Samtec.

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

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

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

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.