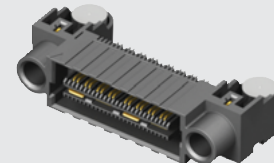


QFS-016-01-SL-D-DP-RA



**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 50µ" (1,27 µm) Ni

(Tin on Ground Plane Tail)

**Current Rating (-RA to -RA):**

Signal Contact:

4.1 A per pin

(1 pin powered per row)

Ground Plane:

Testing Now!

**Voltage Rating:**

300 VAC

**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)

## RECOGNITIONS

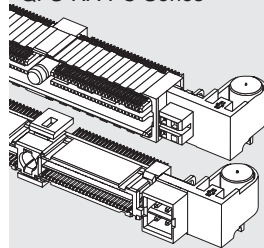
For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## OTHER SOLUTIONS

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



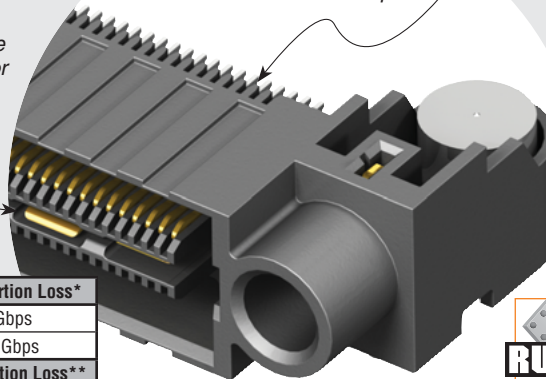
**Note:** Some lengths, styles and options are non-standard, non-returnable.

**Board Mates:**

QMS

Integral metal plane for power or ground

Choice of single-ended or differential pair



QFS-RA/QMS-RA	Type	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	-D	6 GHz / 12 Gbps
Differential Pair Signaling	-D	5.5 GHz / 11 Gbps
QFS-RA/QMS	Type	Rated @ 3dB Insertion Loss**
Single-Ended Signaling	-D	17 GHz / 34 Gbps
Differential Pair Signaling	-D	20 GHz / 40 Gbps

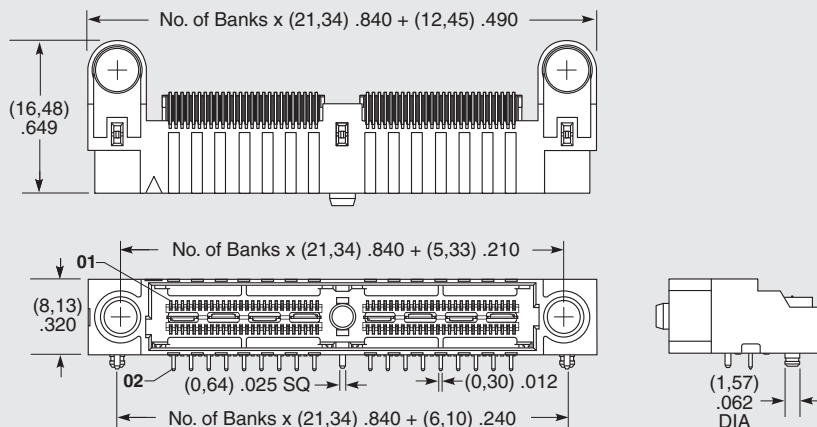
\*Performance data includes effects of a non-optimized PCB.  
\*\*Test board losses de-embedded from performance data.  
Complete test data available at [www.samtec.com?QFS-RA](http://www.samtec.com?QFS-RA) or contact [sig@samtec.com](mailto:sig@samtec.com)

28+  
Gbps

**RUGGEDIZED**  
by SAMTEC

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

<b>QFS</b>	<b>PINS PER ROW NO. OF PAIRS</b>	<b>01</b>	<b>PLATING OPTION</b>	<b>TYPE</b>	<b>RA</b>	<b>OTHER OPTION</b>
	<p><b>-026, -052, -078</b> (52 total pins per bank = -D)</p> <p><b>-016, -032, -048</b> (16 pairs per bank = -D-DP)</p>		<p><b>-SL</b> = 10µ" (0,25 µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails</p>	<p><b>-D</b> = Single-Ended</p> <p><b>-D-DP</b> = Differential Pair</p>		<p><b>-K</b> = Polyimide film Pick &amp; Place Pad</p> <p><b>-TR</b> = Tape &amp; Reel (-016, -026, -032 &amp; -052 positions only)</p>



## 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.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Board to Board & Mezzanine Connectors](#) category:*

*Click to view products by [Samtec](#) manufacturer:*

Other Similar products are found below :

[10135583-642402LF](#) [89885-310LF](#) [589158040000018](#) [6-1393048-0](#) [68683-613](#) [MDF7-12DP-2.54DSA](#) [MDF7-18P-2.54DSA\(01\)](#) [MDF7-20DP-2.54DSA](#) [MDF7-26D-2.54DSA\(55\)](#) [MDF7-3P-2.54DSA\(01\)](#) [MDF7B-3P-2.54DSA\(55\)](#) [MDF7C-11P-2.54DSA\(55\)](#) [MDF7C-18P-2.54DSA\(55\)](#) [MDF7C-5P-2.54DSA\(01\)](#) [MDF7P-5P-2.54DSA\(55\)](#) [75234-0516](#) [FCN-230C068-11](#) [FCN-268F012-G/BD](#) [FCN-268F036-G/BD](#) [FCN-268M012-G/0D](#) [FCN-268M024-G/1D](#) [FCN-360C008-C](#) [FCN-360C040-C](#) [FCN-723J004/1](#) [MIS-048-01-F-D-DP-K](#) [832-10-034-10-001000](#) [93696-325LF](#) [11828-1FA](#) [AXK630345P](#) [18097-0013](#) [ICA-328STT](#) [2007042-2](#) [304400-2](#) [FCN-214Q030-G/0](#) [FCN-215Q040-G/0](#) [FCN-230C068-ESA](#) [FCN-234P048-G/0](#) [FCN-235D050-G/C](#) [FCN-360A3](#) [FCN-360C040-B](#) [210-93-314-41-105000](#) [2-22603-0](#) [379-064-521-202](#) [MDF7-12P-2.54DSA\(01\)](#) [MDF7-16P-2.54DS\(56\)](#) [MDF7-40DP-2.54DSA\(55\)](#) [MDF7-8P-2.54DSA\(55\)](#) [MDF7B-16P-2.54DSA\(55\)](#) [AXG720047](#) [5031084030](#)