

# 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  $\mu$ " (1.27  $\mu$ m) 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:

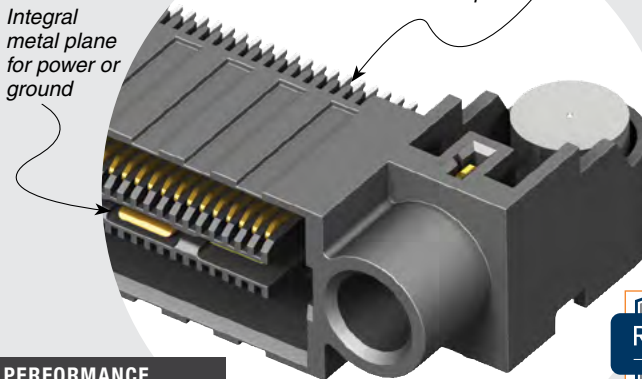
Yes

## Board Mates:

QMS

Integral metal plane for power or ground

Choice of single-ended or differential pair



**RUGGEDIZED**  
BY SAMTEC

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

## HIGH-SPEED CHANNEL PERFORMANCE

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

QFS-RA/QMS

QFS-RA/QMS-RA

**21**  
G b p s

**15**  
G b p s

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (026-052)  
(0.15 mm) .006" max (078)

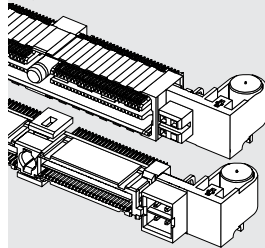
## RECOGNITIONS

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



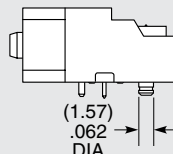
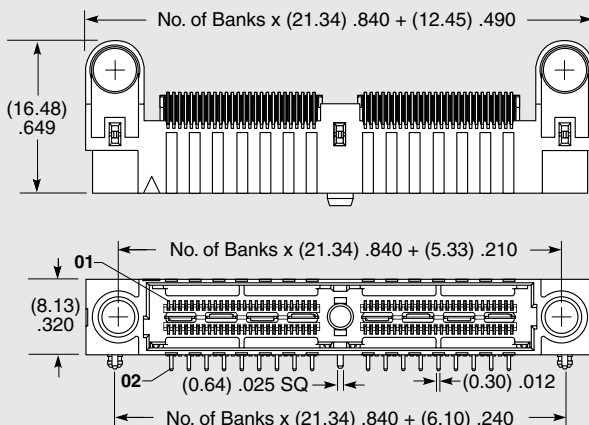
## OTHER SOLUTIONS

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



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

QFS	PINS PER ROW NO. OF PAIRS	01	PLATING OPTION	TYPE	RA	OTHER OPTION
	<p>–026, –052, –078 (52 total pins per bank = –D)</p> <p>–016, –032, –048 (16 pairs per bank = –D–DP)</p>		<p>–SL = 10 <math>\mu</math>" (0.25 <math>\mu</math>m) Gold on Signal Pins and Ground Plane, Matte Tin on tails</p>	<p>–D = Single-Ended</p> <p>–D–DP = Differential Pair</p>		<p>–K = Polyimide film Pick &amp; Place Pad</p> <p>–TR = 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.