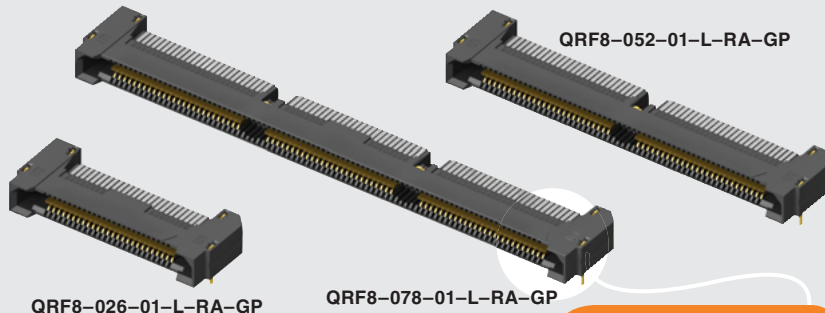




(0,80 mm) .0315"



QRF8-RA SERIES

# RIGHT ANGLE GROUND PLANE SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?QRF8-RA](http://www.samtec.com?QRF8-RA)

### Insulator Material:

Black LCP

### Contact Material:

BeCu

### Ground Plane Material:

Phosphor Bronze

### Plating:

Au or Sn over

50µ" (1,27 µm) Ni

### Current Rating (QRF8-RA/QRM8):

Contact:

2.2 A per pin

(1 pin powered per row)

Ground Plane:

8.6 A per ground plane

(1 ground plane powered)

### Operating Temp Range:

-55°C to +125°C

### Voltage Rating:

230 VAC / 325 VDC

### 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

## ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

**Note:**  
Patented

**Note:**  
For -GP (Guide Post option) to -GP (Guide Post option) mating.

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

**Board Mates:**  
QRM8 (-GP required)



Integral ground/power plane

Edge Rate® contacts

QRM8-RA/QRF8-RA	Rated @ 3dB Insertion Loss	
	with PCB effects*	w/o PCB effects**
Single-Ended Signaling	4.5 GHz / 9 Gbps	14.5 GHz / 29 Gbps
Differential Pair Signaling	6 GHz / 12 Gbps	16 GHz / 32 Gbps

\*Performance data includes effects of a non-optimized PCB.

\*\*Test board losses de-embedded from performance data.

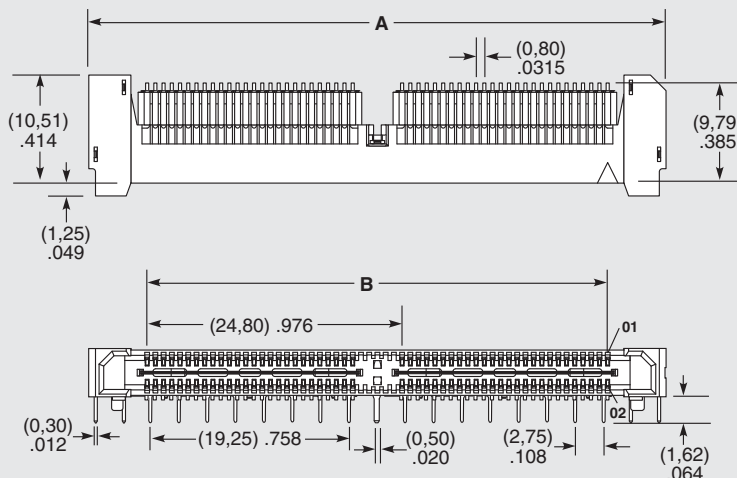
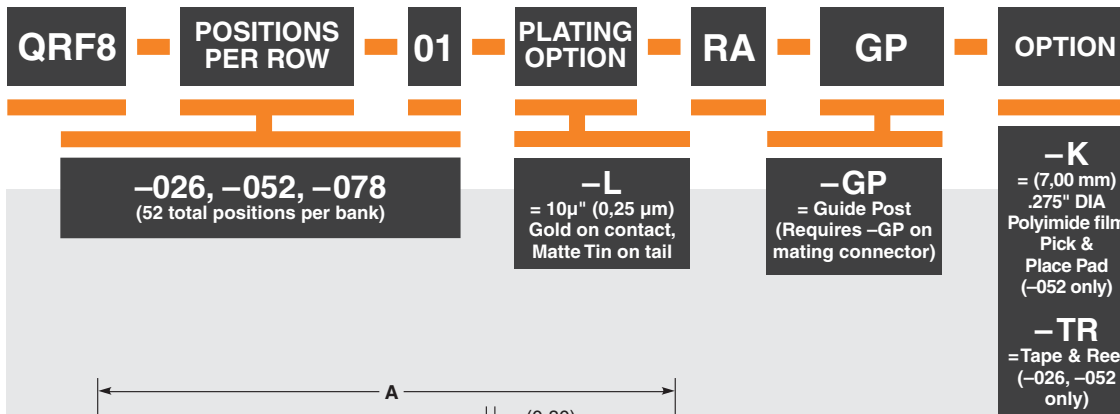
Complete test data available at [www.samtec.com?QRM8-RA](http://www.samtec.com?QRM8-RA) or contact [sig@samtec.com](mailto:sig@samtec.com)

28+  
G b p s

Guide Hole



- Edge Rate® contacts
- Increased contact wipe
- Integral guide post



POSITIONS PER ROW	A	B
-026	(31,35) 1.234	(20,00) .787
-052	(56,15) 2.211	(44,80) 1.764
-078	(80,95) 3.187	(69,60) 2.740