



(0,635mm) .025"

QMS-RA, QFS-RA SERIES

QFS-052-01-SL-D-RA

QMS-052-01-SL-D-RA-MG

# RIGHT ANGLE GROUND PLANE HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?QMS-RA](http://www.samtec.com?QMS-RA) or [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" (1,27µm) Ni (Tin on Ground Plane Tail)

### Current Rating:

Power Contact: 4.1A @ 80°C

Ground Plane: 8.9A @ 80°C

Signal Contact: 1.8A @ 80°C

### Voltage Rating:

300 VAC

### Operating Temp:

-55°C to +125°C

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10mm) .004" max (-026-052)

(0,15mm) .006" max (-078-104)

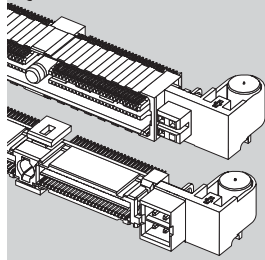


## APPLICATION SPECIFIC

- Plastic Guide Post option available.
  - -02 lead style for (2,36mm) .093" thick board.
- Call Samtec.

## ALSO AVAILABLE

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



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

**QMS** — **PINS PER ROW NO. OF PAIRS** — **01** — **PLATING OPTION** — **TYPE** — **RA** — **MG** — **OTHER OPTION**

Board Mates:  
QFS

**-026, -052, -078, -104**  
(52 total pins per bank = -D)

**-016, -032, -048, -064**  
(16 pairs per bank = -D-DP)

**-SL**

= 10µ" (0,25µm)  
Gold on Signal Pins and Ground Plane, Matte Tin on tails

**-D**

= Single-Ended

**-D-DP**  
= Differential Pair

**-MG**

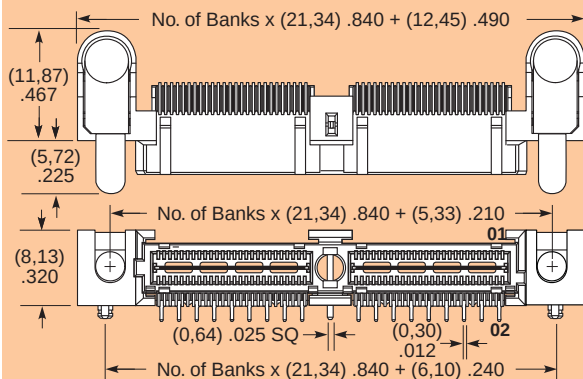
= Metal Guide Post

**-K**

= Polyimide film Pick & Place Pad

**-TR**

= Tape & Reel  
(-016, -026, -032 & -052 positions only)



| QMS-RA mated to QFS         | Rated @ 3dB Insertion Loss |
|-----------------------------|----------------------------|
| Single-Ended Signaling      | 8.0 GHz / 16 Gbps          |
| Differential Pair Signaling | 5.5 GHz / 11.0 Gbps        |



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

**QFS** — **PINS PER ROW NO. OF PAIRS** — **01** — **PLATING OPTION** — **TYPE** — **RA** — **OTHER OPTION**

Mates with:  
QMS, 6QP

**-026, -052, -078, -104**  
(52 total pins per bank = -D)

**-016, -032, -048, -064**  
(16 pairs per bank = -D-DP)

**-SL**

= 10µ" (0,25µm)  
Gold on Signal Pins and Ground Plane, Matte Tin on tails

**-D**

= Single-Ended

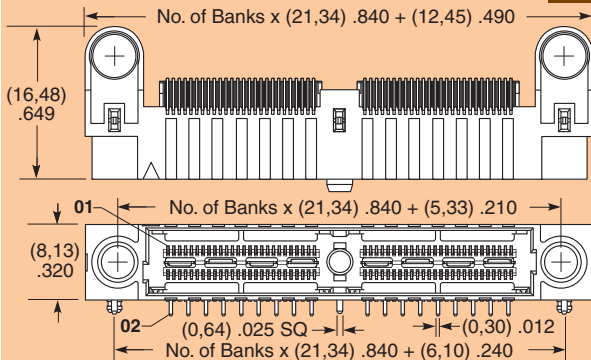
**-D-DP**  
= Differential Pair

**-K**

= Polyimide film Pick & Place Pad

**-TR**

= Tape & Reel  
(-016, -026, -032 & -052 positions only)



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

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