

(0.50 mm) .0197"

QSH-060-01-L-D-RA

QSH-090-01-F-D-RA-GP

QSH-020-01-F-D-DP-RA

QSH-RA SERIES

# RIGHT-ANGLE GROUND PLANE SOCKET

## SPECIFICATIONS

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

### Insulator Material:

Black Liquid Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Weld Tab:

Phosphor Bronze

### Ground Plane:

Phosphor Bronze

### Plating:

Au or Sn over 50  $\mu$ " (1.27  $\mu$ m) Ni

### Current Rating:

Contact:

2.2 A per pin

(2 pins powered)

Ground Plane:

21.8 A per ground plane

(1 ground plane powered)

### Operating Temp Range:

-55 °C to +125 °C

### Voltage Rating:

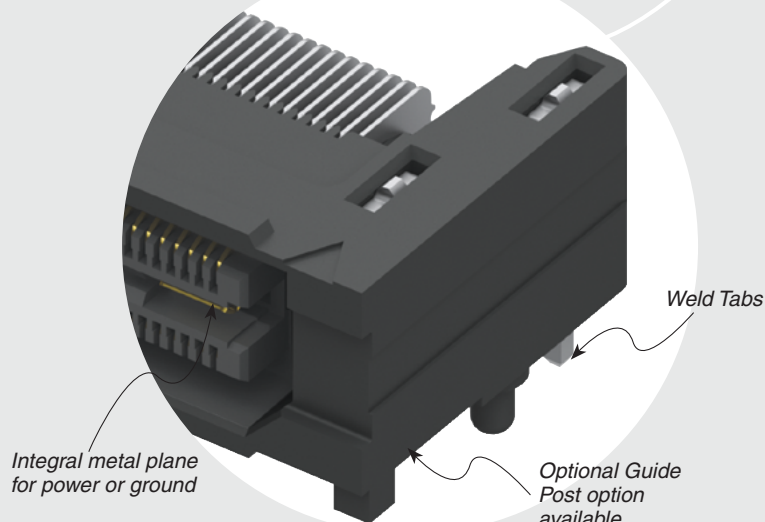
220 VAC

### RoHS Compliant:

Yes

## Board Mates:

QTH



## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max (020-090)

QSH

PINS PER ROW  
NO. OF PAIRS

01

PLATING  
OPTION

TYPE

RA

OTHER  
OPTION

–030, –060, –090  
–D = (60 total pins per bank)

–020, –040, –060  
–D-DP = (20 pairs per bank)

–F

= Gold Flash  
on contact,  
Matte Tin on tails

–L

= 10  $\mu$ " (0.25  $\mu$ m)  
Gold contact,  
Matte Tin on tails

–D

= Single-  
Ended

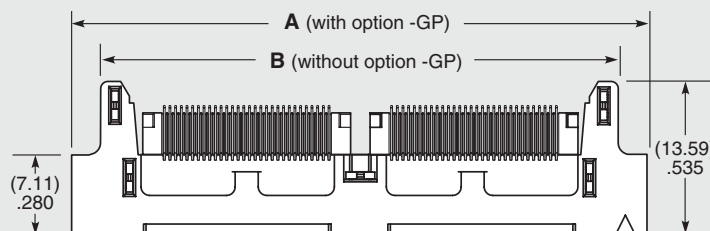
–D-DP  
= Differential  
Pair

–GP

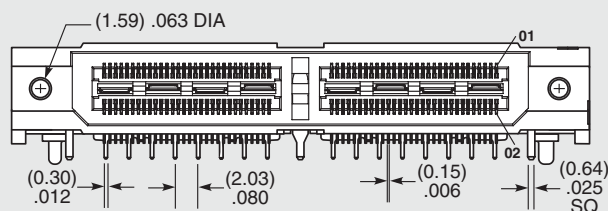
= Guide Post  
Holes

–K

= (6.50 mm) .256"  
DIA Polyimide film  
Pick & Place Pad



NO. OF PAIRS	PINS PER ROW	A	B
–020	–030	(30.80) 1.213	(25.72) 1.013
–040	–060	(50.80) 2.000	(45.72) 1.800
–060	–090	(70.80) 2.788	(65.72) 2.588



–GP OPTION SHOWN

### 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.