

(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 or 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 μ " (1.27 μ m) Ni

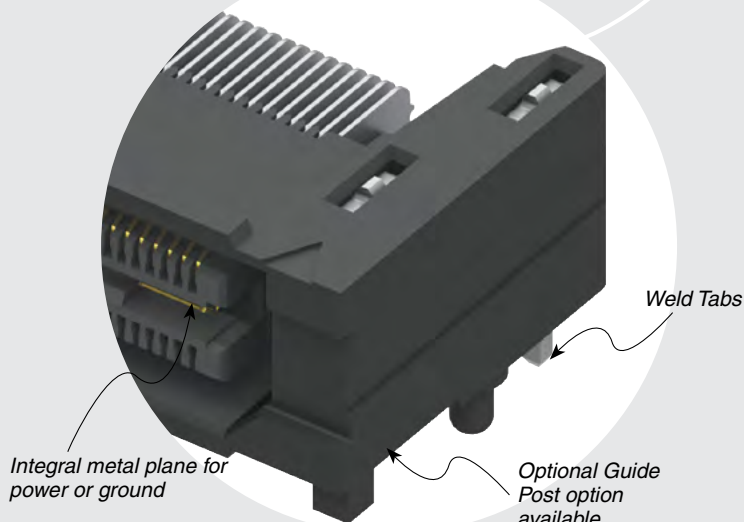
Current Rating:
Contact:
2.2 A per pin
(1 pin powered per row)
Ground Plane:
21.8 A per ground plane
(1 ground plane powered)

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 μ " (0.25 μ m)
Gold contact,
Matte Tin on tails

–D

= Single-
Ended

–D-DP

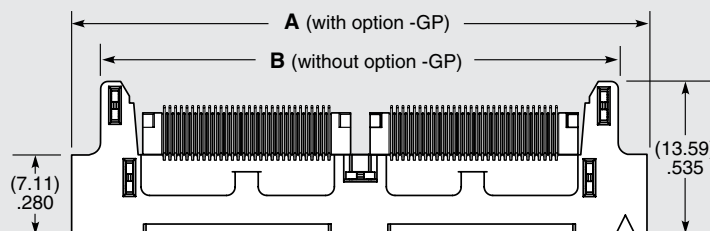
= Differential
Pair

–GP

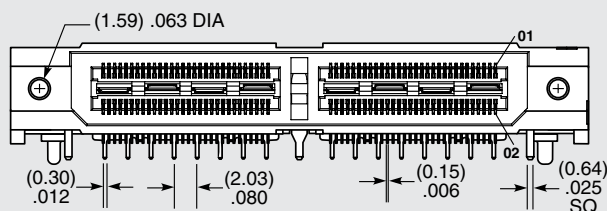
= Guide Post
Holes

–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.