

0,50mm HI-SPEED SOCKET GERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?QSH

Insulator Material: Liquid Crystal Polymer Contact Material: Phosphor Bronze Plating: Au over 50μ" (1,27μm) Ni

Current Rating: Contact: 1.0A @ 30°C Temperature Rise Ground Plane: 7.8A @ 30°C Temperature Rise
Operating Temp Range:
-55°C to +125°C
Voltage Rating:
125 VAC (5mm Stack Height)

Max Cycles: 100 Unmating Force (-RT1 option):

-RT1 option increases unmating force up to 50% RoHS Compliant:

Processing:

Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x Lead-Free Solderable:

SMT Lead Coplanarity: (0,10mm) .004" max (030-060) (0,15mm) .006" max (090-120) Board Stacking:

For applications requiring more than two connectors per board or 4 banks or more, contact ipg@samtec.com

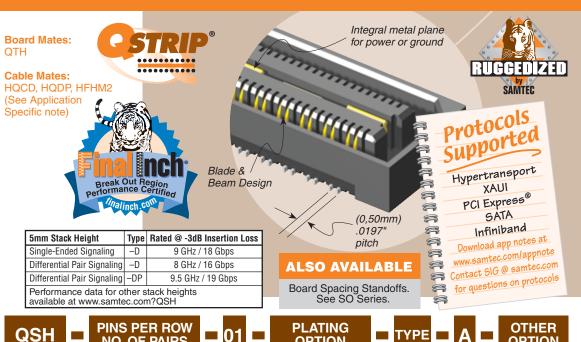
APPLICATION SPECIFIC OPTION

- 14mm, 15mm, 22mm and 30mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
- 30μ" (0,76μm) Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount & Guide Posts
- 150 positions per row Call Samtec.

*Note: -C Plating passes 10 year MFG testing

Note: Some lengths, styles and options are non-standard, non-returnable. (3,05)

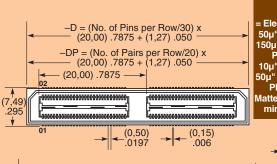
.120



-030, -060, -090, -120 (60 total pins per bank = -D)

NO. OF PAIRS

-020, -040, -060, -080(20 pairs per bank = -D-DP)



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

OPTION

= Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails

= Electro-Polished Selective 50μ" (1,27μm) min Au over 150μ" (3,81μm) Ni on Signal Pins in contact area, 10μ" (0,25μm) min Au over Plane in contact area,

50μ" (1,27μm) Ni on Ground Matte Tin over 50μ" (1,27μm) min Ni on all solder tails (0,76)030 (3.81)(0,89)(3,25)035 150 (3.76)148 128 DIA DIA -01

-D = Single-Ended –D–DP Differential Pair (-01 only)

-K = (8,25mm) .325" DIA Polyimide Film Pick & Place Pad

OPTION

–TR = Tape & Reel -090 positions maximum)

-RT1 = Retention Option 090 positions maximum)

STACK HEIGHTS

QTH LEAD STYLE	MATED HEIGHT WITH QSH
-01	(5,00) .198
-02	(8,00) .315
-03	(11,00) .433
-04	(16,00) .630
-05	(19,00) .748
-07	(25,00) .984

Processing conditions will affect mated height.

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

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