





0,80mm HI-SPEED SOCKET QSE SERIES

SPECIFICATIONS

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

Insulator Material: Liquid Crystal CTUS Liquid Crystal Polymer Terminal Material: Phosphor Bronze Plating:

Au over 50μ" (1,27μm) Ni Current Rating: Contacts: 2A @ 80°C Conlacts: 2A @ 80°C Ground Plane: 9.5A @ 80°C Operating Temp Range: -55°C to +125°C Voltage Rating: 225 VAC (5mm Stack Height) Max Cycles:

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 (020-060) (0,15mm) .006" max (080) Board Stacking: For applications requiring

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

APPLICATION SPECIFIC OPTION

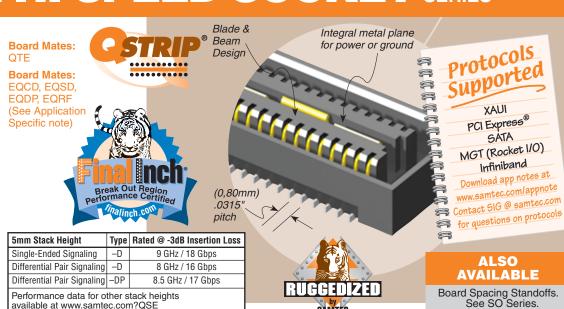
- 14mm, 15mm, 22mm and 30mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
- 30μ" (0,76μm) Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount
- 100 positions per row
- ·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

Call Samtec.

*Note: -C Plating passes 10 year MFG testing

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

120

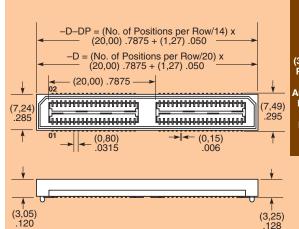


PINS PER ROW PLATING OTHER QSE 01 NO. OF PAIRS OPTION **OPTION**

-020, -040, -060, -080(40 total pins per bank = -D)

available at www.samtec.com?QSE

-014, -028, -042, -056 (14 pairs per bank = -D-DP)



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

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

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

in contact area, Matte Tin over 50µ" (1,27µm) min Ni on all solder tails



–D = Single Ended D-DP = Differential

Pair

(-01 only)

–TR = Tape & Reel Packaging (-060 positions maximum)

(8,25mm) .325

DIA Polyimide Film Pick &

Place Pad

(3,76)148 DIA -RT1

-RT1 = Retention Option (–060 positions maximum)

STACK HEIGHTS

QTE LEAD STYLE	MATED HEIGHT WITH QSE
-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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