





(0.80 mm) .0315"

QSE SERIES

HIGH-SPEED GROUND PLANE SOCKET

SPECIFICATIONS

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

Insulator Material: Liquid Crystal Polymer Terminal Material: Phosphor Bronze Plating: Au or Sn over 50 μ" (1.27 μm) Ni **Current Rating:** Contacts: 2 A per pin (2 pins powered) Ground Plane: 23 A per ground plane

23 A per ground plane (1 ground plane powered) Operating Temp Range: -55 °C to +125 °C Voltage Rating: 225 VAC (5 mm Stack Height) Max Cycles: 100 RoHS Compliant: Yes

PROCESSING

Lead-Free Solderable: Yes SMT Lead Coplanarity: (0.10 mm) .004" max (020-060) Board Stacking: For applications requiring more

than two connectors per board contact ipg@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality





PROTOCOLS

- 100 GbF
- XAUI
- PCI Express®
- SATA
- MGT (Rocket I/O)
- InfiniBand™

ALSO AVAILABLE (MOQ Required)

- 15 mm, 22 mm and 30 mm stack height
- 30 μ" (0.76 μm) Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount
- 56 (-DP), 80, 100 positions per row
- Retention, Guide Posts and Friction Lock options.

Contact Samtec.

Board Mates:

Cable Mates:

EQCD, EQDF (See Also Available Note)

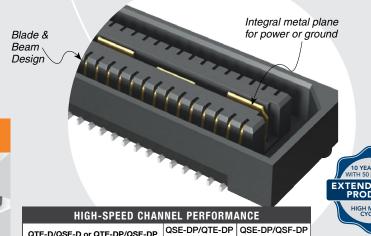
Standoffs:

QSE

POWER/SIGNAL APPLICATION



Compatible with UMPT/UMPS for flexible two-piece power/signal solutions



QTE-D/QSE-D or QTE-DP/QSE-DP

@ 5 mm Mated Stack Height Rating based on Samtec reference

channel.For full SI performance data visit Samtec.comor contact SIG@samtec.com

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PLATING

OPTION

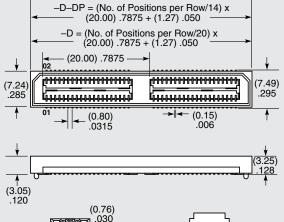
OTHER OPTION

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

PINS PER ROW

NO. OF PAIRS

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



_F

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

= 10 μ" (0.25 μm) Gold on Signal Pins and Ground Plane, Matte Tin on tails

-C*= Electro-Polished

Selective 50 μ" (1.27 μm) min Au over 150 μ" (3.81 μm) Ni on Signal Pins in contact area. 10 μ" (0.25 μm) min Au over 50 μ" (1.27 μm) Ni on Ground Plane in contact area. Matte Tin over 50 μ" (1.27 µm) min Ni on all solder tails

*Note: -C Plating passes 10 year MFG testing

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

-GP = Guide Post

Ended (-020 only) D-DP

= Single

= Differential

(-01 only)

DIA Polyimide Film Pick & Place Pad

–K

(8.25 mm) .325'

–TR = Tape & Reel Packaging

Latching Option (N/A on -042 & -060 positions)

QTE LEAD STYLE	MATED HEIGHT WITH QSE*
-01	(5.00) .197
-02	(8.00) .315
-03	(11.00) .433
-04	(16.00) .630
-05	(19.00) .748
-07	(25.00) .984
-09	(14.00) .551

Processing conditions will affect mated height. See SO Series for board space tolerances

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

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