



(0,80mm) .0315"

QSE SERIES



QSE-020-01-L-D-A-RT1



QSE-060-01-F-D-A

QSE-028-01-F-D-DP-A-RT1

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 50µ" (1,27µm) Ni
- Current Rating:** Contacts: 1.3A @ 95°C
Ground Plane: 10.1A @ 95°C
- Operating Temp Range:** -55°C to +125°C
- Voltage Rating:** 225 VAC (5mm Stack Height)
- Max Cycles:** 100
- Unmating Force (-RT1 option):** -RT1 option increases unmating force up to 50%
- RoHS Compliant:** Yes

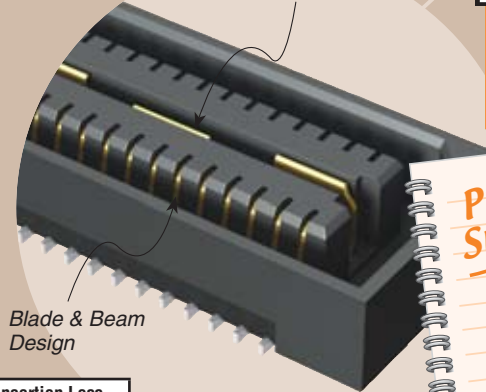


Board Mates:
QTE

Cable Mates:
EQCD, EQSD, EQDP, EQRF
(See Application Specific note)



Integral metal plane for power or ground



Blade & Beam Design

RUGGEDIZED



by SAMTEC

- E.L.P.™ plating option (-C)
- Retention pin option

Protocols Supported

- XAUI
 - PCI Express®
 - SATA
 - MGT (Rocket I/O)
 - Infiniband
- Download app notes at www.samtec.com/appnote
Contact SIG @ samtec.com for questions on protocols

5mm Stack Height	Type	Rated @ 3dB Insertion Loss
Single-Ended Signaling	-D	9 GHz / 18 Gbps
Differential Pair Signaling	-D	8 GHz / 16 Gbps
Differential Pair Signaling	-DP	8.5 GHz / 17 Gbps

Performance data for other stack heights and complete test data available at www.samtec.com?QSE or contact sig@samtec.com

ALSO AVAILABLE

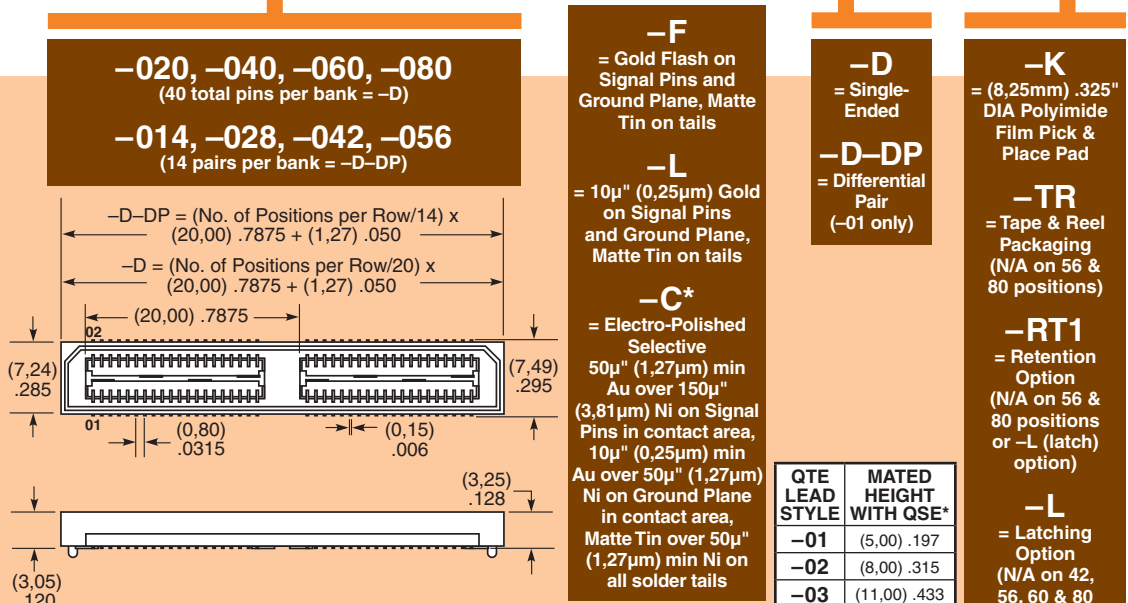
Board Spacing Standoffs. See SO Series.

Processing:

- Lead-Free Solderable:** Yes
- 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.



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

*Processing conditions will affect mated height.

*Note: -C Plating passes 10 year MFG testing
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