

(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
50µ" (1,27 µm) Ni

Current Rating:
Contacts:
2 A per pin

(1 pin powered per row)
Ground Plane:
23 A per ground plane
(1 ground plane powered)

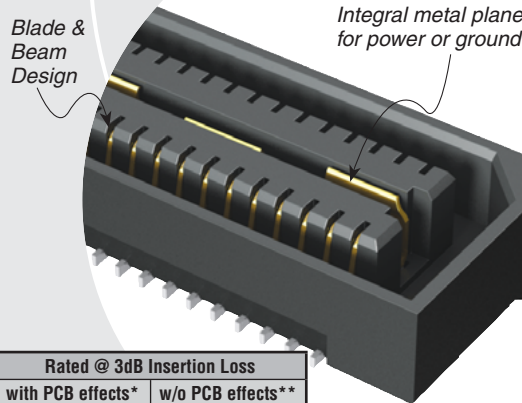
Operating Temp Range:
-55°C to +125°C

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

Board Mates:
QTE

Cable Mates:
EQCD, EQDP, EQRF
(See Also Available note)



QTE/QSE 5 mm Stack Height	Type	Rated @ 3dB Insertion Loss	
		with PCB effects*	w/o PCB effects**
Single-Ended Signaling	-D	9 GHz / 18 Gbps	9 GHz / 18 Gbps
Differential Pair Signaling	-D	8 GHz / 16 Gbps	14 GHz / 28 Gbps
Differential Pair Signaling	-DP	8.5 GHz / 17 Gbps	13.5 GHz / 27 Gbps

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.
Performance data for other stack heights and complete test data available at www.samtec.com?QSE or contact sig@samtec.com

Final Inch
CERTIFIED

28+
Gbps

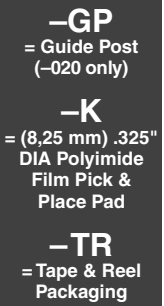
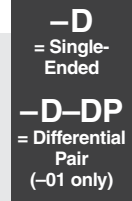
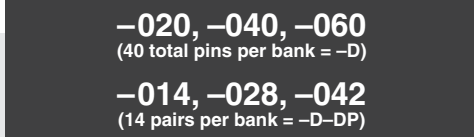
RECOGNITIONS

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



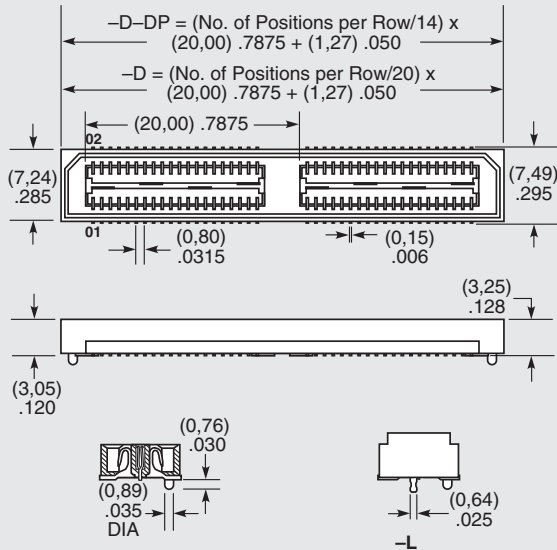
ALSO AVAILABLE (MOQ Required)

- 14 mm, 15 mm, 22 mm and 30 mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
 - 30µ" (0,76 µm) Gold (Specify -H plating for Data Rate cable mating applications.)
 - Edge Mount
 - 56 (-DP), 80, 100 positions per row
 - Guide Posts and Friction Lock options.
 - Retention Option
- Contact 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.

OTHER SOLUTIONS

- Board Spacing Standoffs. See SO Series