

0,50mm HI-SPEED SOCKET QSH, CQSH SERIES

SPECIFICATIONS

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

QSH

Insulator Material: Liquid Crystal Polymer Contact Material: Phosphor Bronze c **Flu**s Plating: U Table 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: Yes

Processing:

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

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 120 positions or higher, contact ipg@samtec.com

SPECIFICATIONS

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CQSH

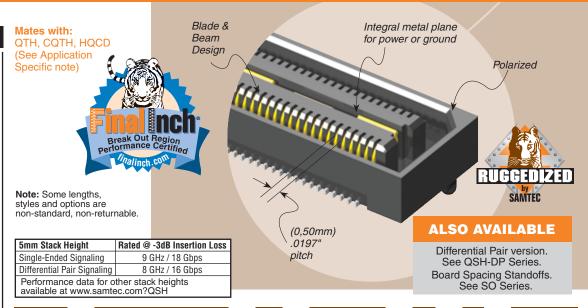
Max Cycles: 25

Same as QSH except: UL & CSA certification pending Plating: Electro-Polished Selective

APPLICATION SPECIFIC OPTION

- 14mm, 15mm, 22mm and 30mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions.
- Edge Mount & Guide Posts (QSH only)
- 150 positions per row (QSH only)

Call Samtec.



030, -060, -090, -120 (60 total positions per bank)

NO. OF POSITIONS

PER ROW

QSH (Requires -L or -F plating)

STRIP

CQSH (Requires -C plating) = 10μ" (0,25μm) Gold on Signal Pins and Ground Plane, Matte Tin on tails (QSH only)

PLATING

OPTION

= Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails (QSH only)

–C = Electro-Polished Selective (CQSH only)

–K

OTHER

OPTION

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

–TR

Tape & Reel (-090 positions (QSH Series Only)

-RT1

= Retention Option (-090 positions maximum) (QSH Series Only)

- Please consult machinery specifications.)
- 30μ" (0,76μm) Gold (Specify -H plating for Data Rate cable mating applications. QSH only)

(20,00) .7875 + (1,27) .050(20,00).7875 -(3,76) __.148 (7.49)295 DIA -RT1 (0,15)006 (3,05) .120 .285 (0,76).030 (0,89)035 DIA

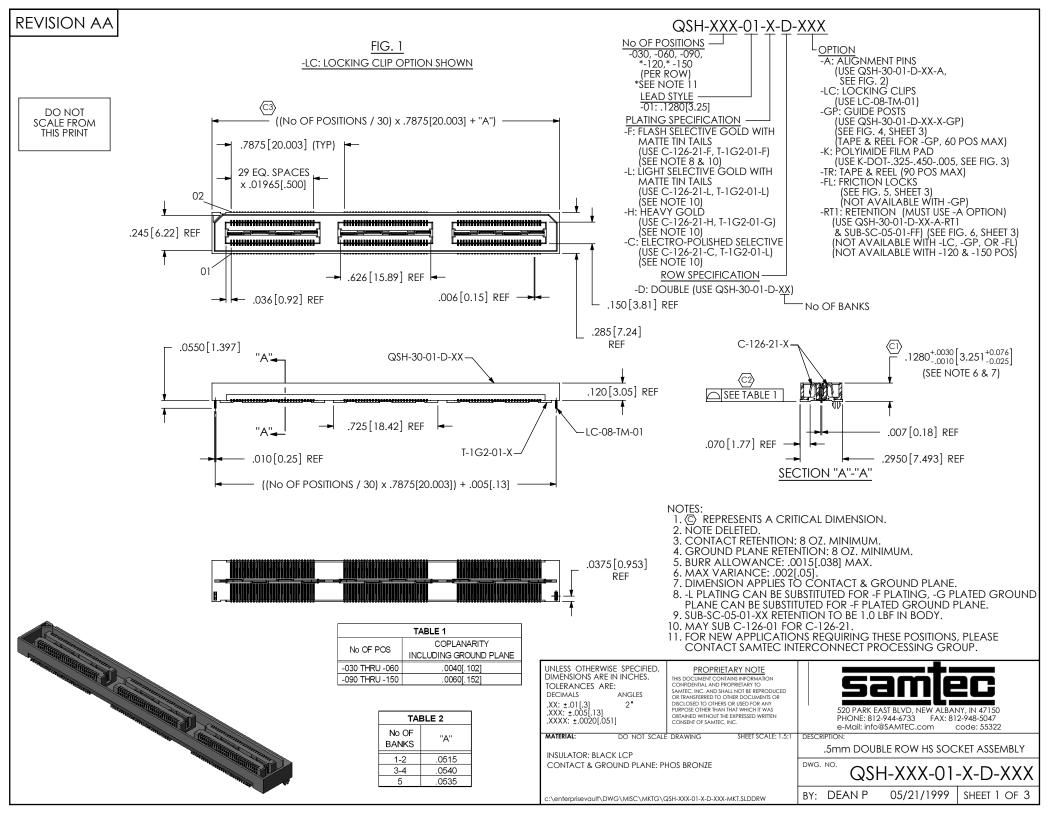
STACK HEIGHTS

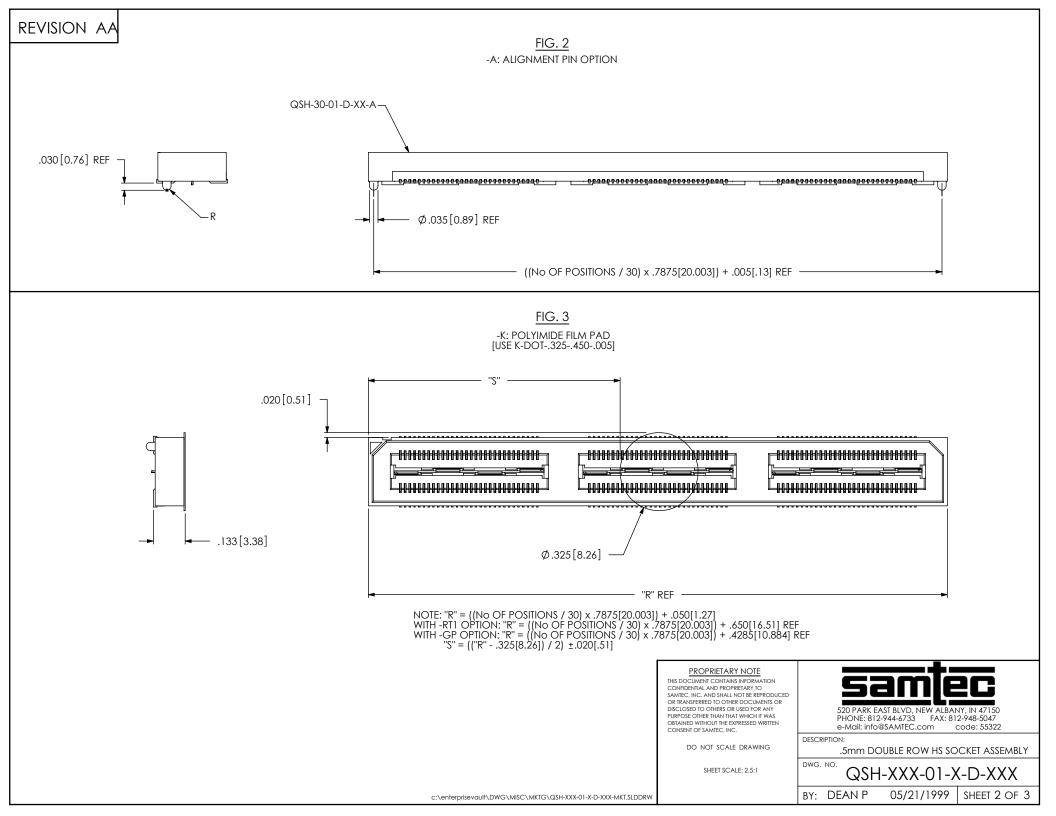
QTH LEAD STYLE	MATED HEIGHT WITH QSH
-01	(5,00) .198
-02	(8,00) .315
-03	(11,00) .433
-04	(16,00) .630
-05	(19,00) .748
-07	(25,00) .984

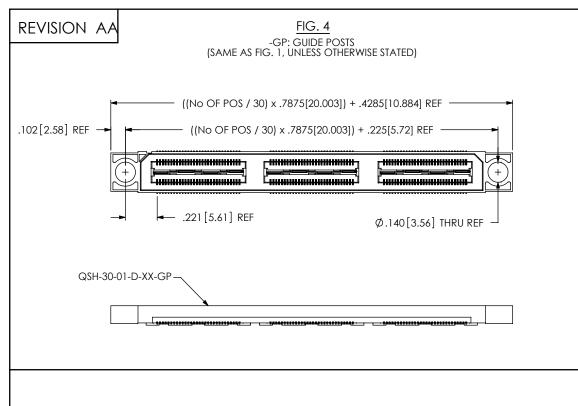
Processing conditions will affect mated height.

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

(No. of Positions per Row/30) x







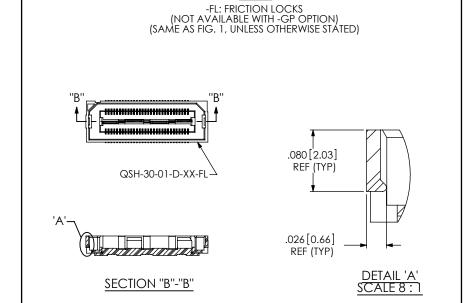
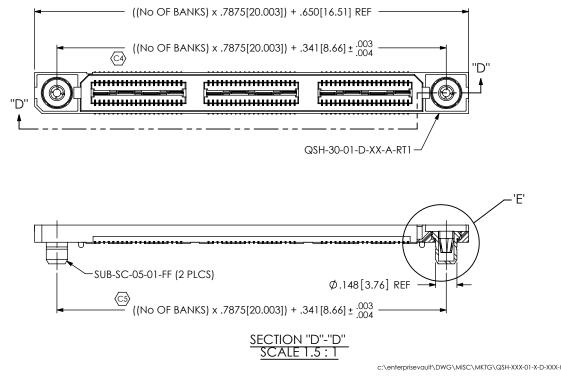


FIG. 5



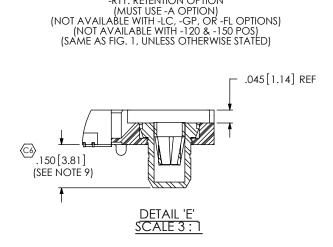


FIG. 6 -RT1: RETENTION OPTION



520 PARK EAST BLVD, NEW ALBANY, IN 47150 PHONE: 812-944-6733 FAX: 812-948-5047 e-Mail: info@SAMTEC.com code: 55322

DO NOT SCALE DRAWING

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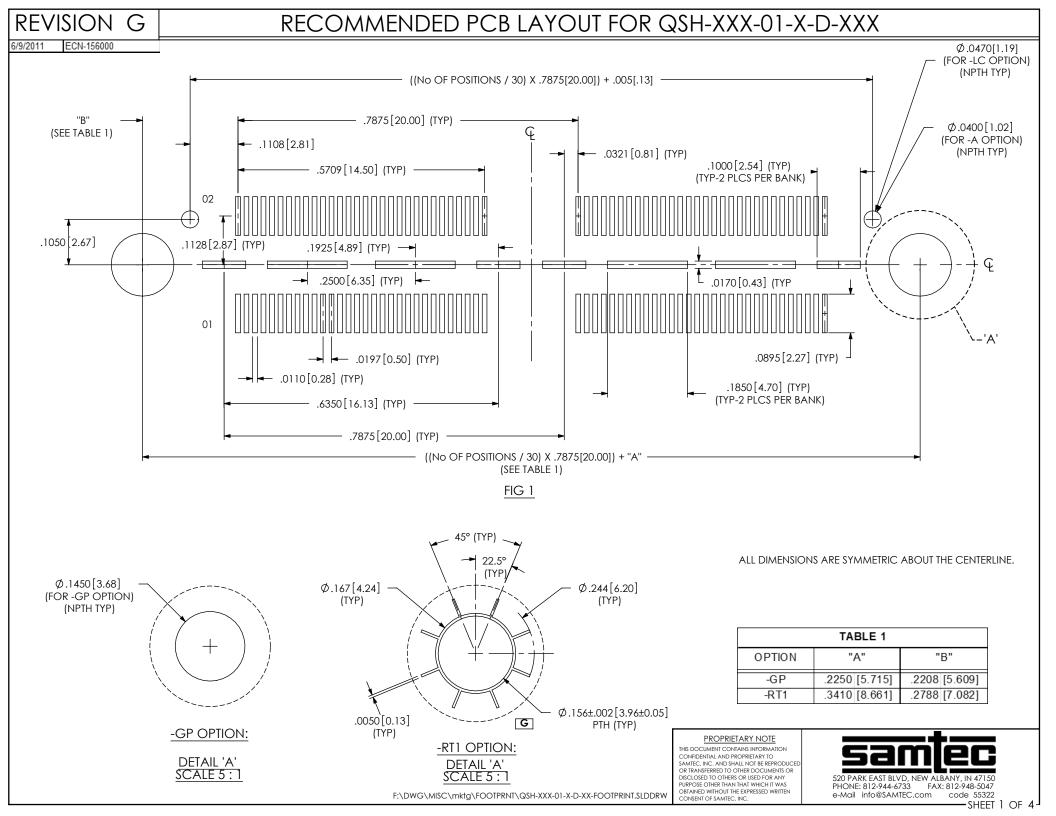
SHEET SCALE: 1.5:1

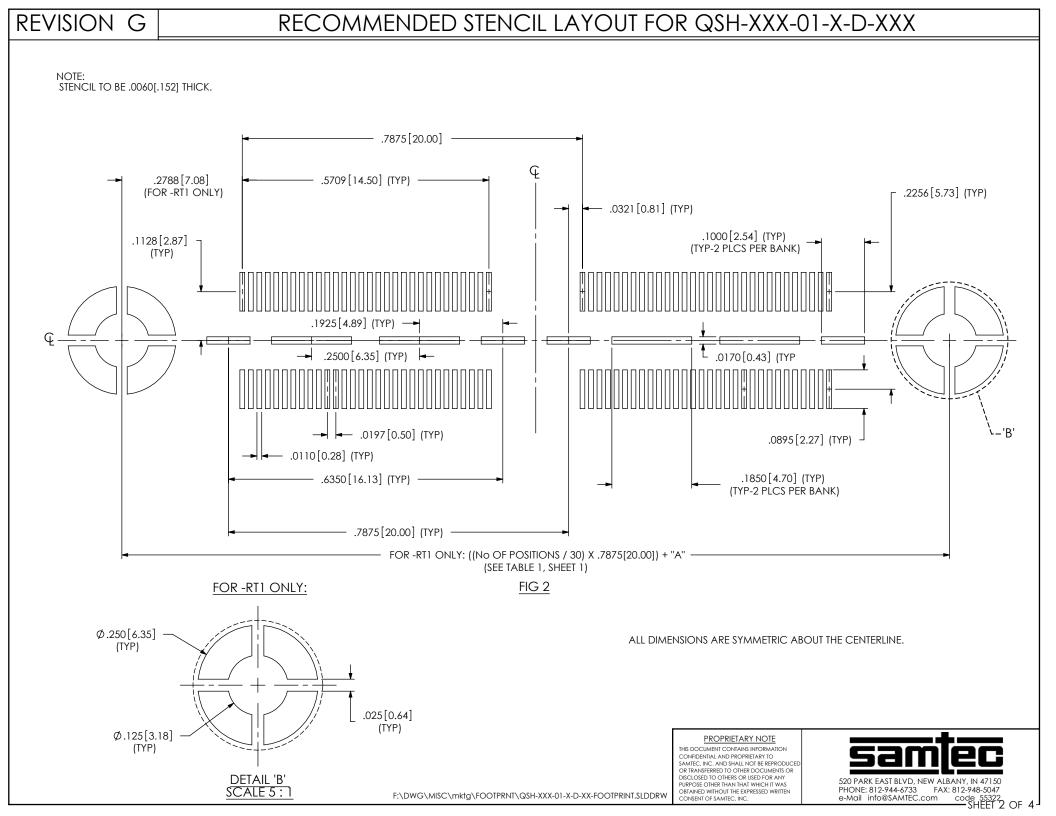
.5mm DOUBLE ROW HS SOCKET ASSEMBLY

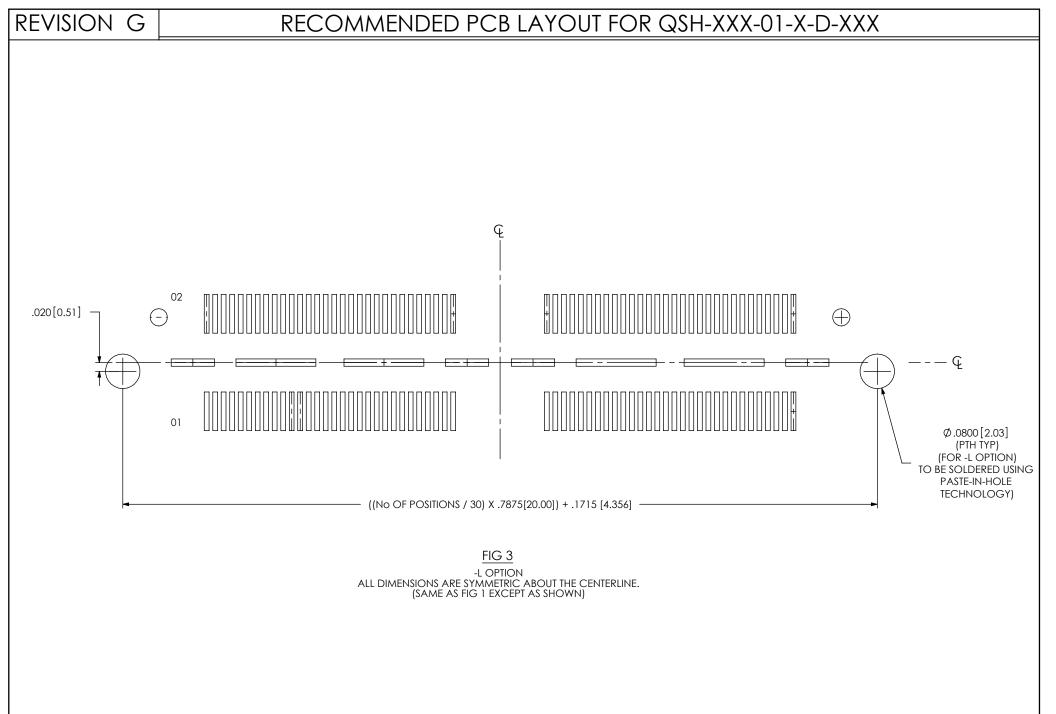
QSH-XXX-01-X-D-XXX

BY: DEAN P 05/21/1999 | SHEET 3 OF 3

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 NOTE: STENCIL TO BE .0060[.152] THICK

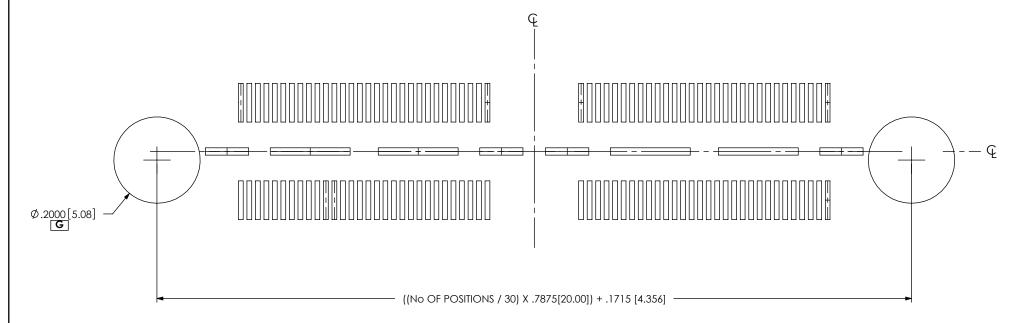


FIG 4

-L OPTION

ALL DIMENSIONS ARE SYMMETRIC ABOUT THE CENTERLINE.
(SAME AS FIG 2 EXCEPT AS SHOWN)

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