HIGH-SPEED GROUND PLANE SOCKET

**SPECIFICATIONS**

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

Insulator Material: Liquid Crystal Polymer
Contact Material: Phosphor Bronze
Plating:
- Au or Sn over 50 µ" (1.27 µm) Ni

Current Rating:
- Contact: 2 A per pin (2 pins powered)
- Ground Plane: 25 A per ground plane (1 ground plane powered)

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

Voltage Rating:
- 175 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 jgp@samtec.com

**RECOGNITIONS**

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

**STANDARDS**

- PISMO™ 1
  - Visit www.samtec.com/standards for more information.

- 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 & Guide Posts
  - 80 (-DP), 120, 150 positions per row
  - Retention Option

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

**Board Mates:** QTH

**Cable Mates:** HQCD, HQDP

(See Also Available Note)

**Standoffs:** SO

**POWER/SIGNAL APPLICATION**

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

**HIGH-SPEED CHANNEL PERFORMANCE**

QTH/QSH @ 5 mm Mated Stack Height

Rating based on Samtec reference channel.

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

**QTH LEAD STYLE**

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

- L = 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.

**QSH SERIES**

QSH–030–01–F–D–A
QSH–060–01–L–D–A–K
QSH–060–01–L–D–DP–A

Integral metal plane for power or ground
Blade & Beam Design

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

All parts within this catalog are built to Samtec’s specifications.
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

WWW.SAMTEC.COM