





# 0,80mm HI-SPEED SOCKET QSE, CQSE

# **SPECIFICATIONS**

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

# **QSE**

Insulator Material: Liquid Crystal Polymer
Terminal Material: Phosphor Bronze C Susus

Plating:
Au over 50µ" (1,27µm) Ni
Current Rating:
Contacts: 2A @ 80°C
Ground Plane: 9.5A @ 80°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

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 (020-060) (0,15mm) .006" max (080)

**Board Stacking:** For applications requiring more than two connectors per board or 80 positions or higher, contact ipg@samtec.com

### **SPECIFICATIONS**

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#### CQSE

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

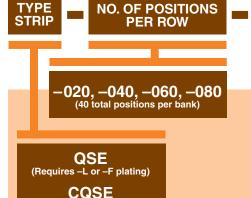
Max Cycles:

Mates with: QTE, CQTE EQCD, EQSD (See Application Specific note)

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

5mm Stack Height Rated @ -3dB Insertion Loss Single-Ended Signaling 9 GHz / 18 Gbps Differential Pair Signaling 8 GHz / 16 Gbps Performance data for other stack heights available at www.samtec.com?QSE

Blade & Integral metal plane Beam for power or ground Design Polarized SAMTEC STACK HEIGHTS QTE LEAD STYLE (0.80mm)MATED HEIGHT .0315 WITH QSE pitch (5,00) .198 -01-02 (8,00) .315 (11.00) .433 -03ALSO AVAILABLE -04 (16,00) .630 (19,00) .748 -05 Differential Pair version. See QSE-DP Series. -07 (25,00) .984 Board Spacing Standoffs. See SO Series.



(Requires -C plating)

= 10μ" (0,25μm) Gold on Signal Pins and Ground Plane, Matte Tin on tails (QSE only)

**PLATING** 

**OPTION** 

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

 $-\mathbf{C}$ 

= Electro-Polished Selective (CQSE only)

# QSE Series Only

**OTHER** 

**OPTION** 

Processing conditions will affect mated height.



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

## –TR

= Tape & Reel Packaging -060 positions maximum)

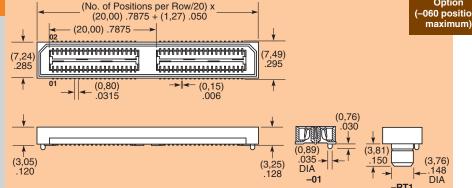
## -RT1

= Retention Option -060 positions

# **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, QSE only)
- Edge Mount (QSE only)
- 100 positions per row (QSE only)
- · Guide Posts and Friction Lock options (QSE only)

Call Samtec.



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