

# 0,80mm HI-SPEED SOCKET QSE SERIES

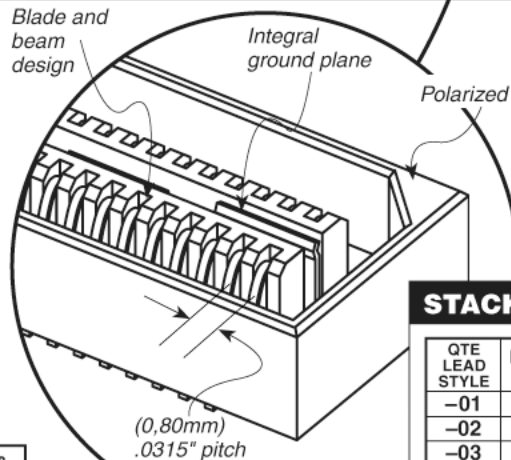
## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?QSE](http://www.samtec.com?QSE)

**Insulator Material:** Liquid Crystal Polymer  
**Terminal Material:** Phosphor Bronze  
**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 mated with QTE & 5mm Stack Height  
**RoHS Compliant:** Yes



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



## STACK HEIGHTS

| QTE LEAD STYLE | MATED HEIGHT WITH QSE |
|----------------|-----------------------|
| -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.

| 0,80mm QTE/QSE              | Rated @ -3dB Insertion Loss |
|-----------------------------|-----------------------------|
| 5mm Stack Height            |                             |
| 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](http://www.samtec.com?QSE)

## Processing:

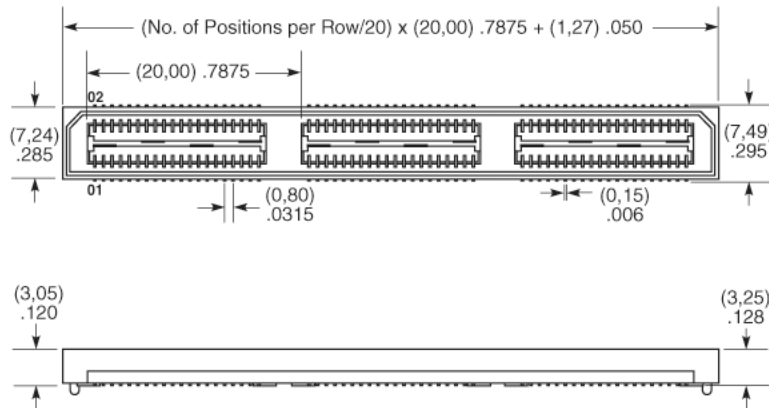
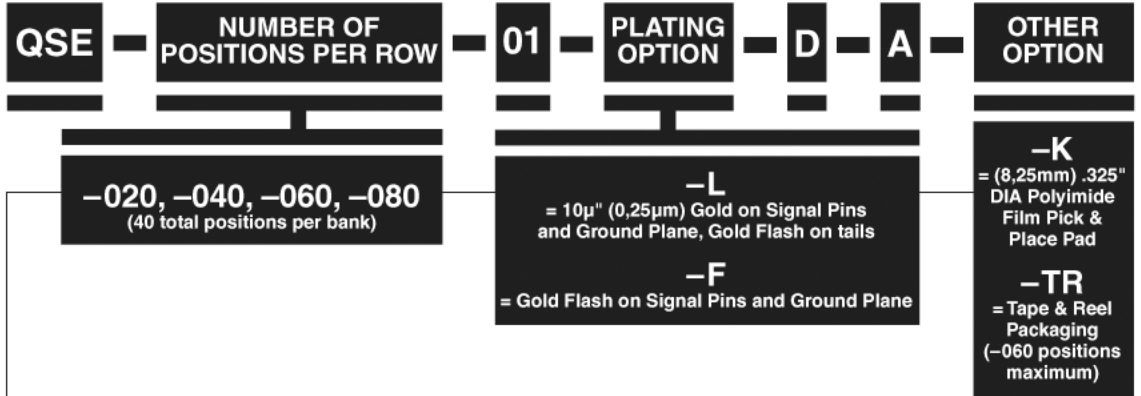
**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x  
**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:** (0,10mm) .004" max (020-060) (0,15mm) .006" max (080)  
**Board Stacking:** For applications requiring more than two connectors per board, contact [ipg@samtec.com](mailto:ipg@samtec.com)

## APPLICATION SPECIFIC OPTION

- 30µ" (0,76µm) Gold (Specify -H plating for Data Rate cable mating applications)
  - Edge Mount
  - 100 positions per row
  - Guide Posts, Retention Pin and Friction Lock options
  - 14mm, 22mm, and 30mm stack height
- Call Samtec.

## ALSO AVAILABLE

See Differential Pair version at [www.samtec?QSE-DP](http://www.samtec?QSE-DP)



**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](http://WWW.SAMTEC.COM)