



QTS-050-01-F-D-RA-WT



QTS-RA SERIES

(0.635 mm) .025"

# RIGHT-ANGLE GROUND PLANE HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com/QTS-RA](http://www.samtec.com/QTS-RA)

**Insulator Material:**  
Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze

### Plating:

Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Current Rating:

Contact:  
2 A per pin  
(2 pins powered)

Ground Plane:  
15.7 A per ground plane  
(1 ground plane powered)

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

**Voltage Rating:**  
275 VAC mated with QSS-RA  
**RoHS Compliant:**  
Yes

**Board Mates:**  
QSS



- Guide posts
- Weld tabs
- PCB mounting holes
- Solder pin option

## HIGH-SPEED CHANNEL PERFORMANCE

QTS-RA/QSS-RA or QTS-RA/QSS-D

Rating based on Samtec reference channel.  
For full SI performance data visit [Samtec.com](http://Samtec.com)  
or contact [SIG@samtec.com](mailto:SIG@samtec.com)

14  
Gbps

Integral metal plane  
for power or ground

Right-angle

Selectively  
plated

Guide  
post

## APPLICATIONS



HORIZONTAL



PERPENDICULAR

## PROCESSING

**Lead-Free Solderable:**

Yes

**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (025-075)

## RECOGNITIONS

For complete scope of  
recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)

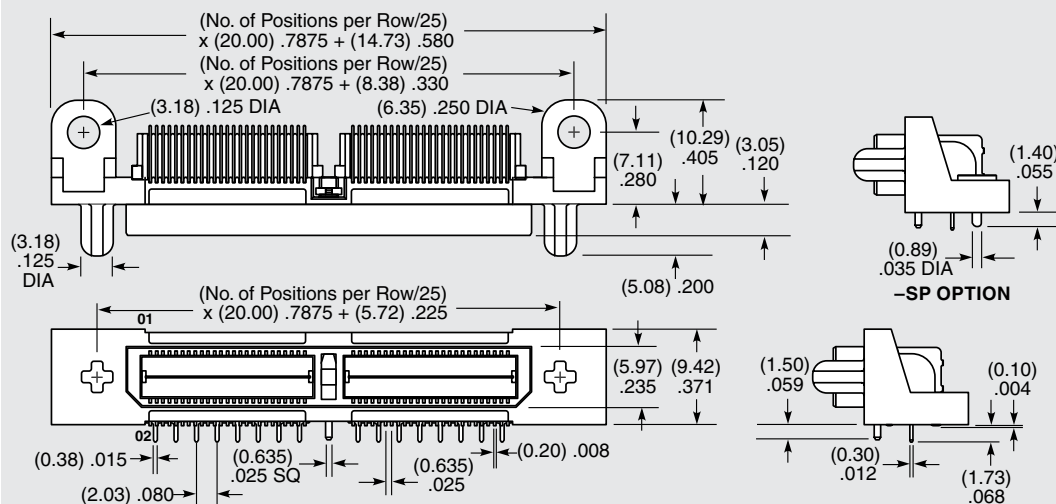
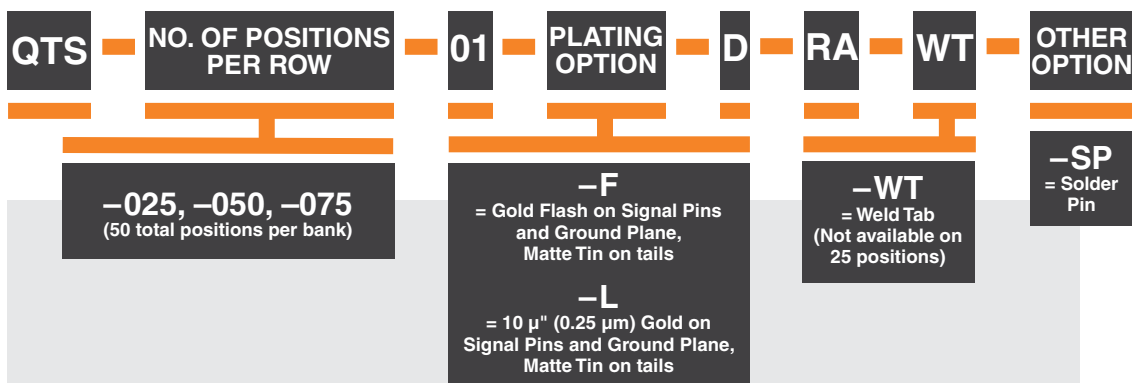


FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- 30  $\mu$ " (0.76  $\mu$ m) Gold
  - Differential Pair
  - "Partitionable" (combine differential & single-ended banks in same connector)
  - Lead Style for (2.36 mm) .093" thick board
  - -LS1 Locking Screw (Mates with QSS-RA-LS1)
  - -LS2 Locking Screw (Mates with QSS-LS2)
  - 100 positions per row
- Contact Samtec.

**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)

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.