

# 0,635mm HI-SPEED HEADER QTS, CQTS SERIES

## SPECIFICATIONS

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

### QTS

**Insulator Material:** Liquid Crystal Polymer

**Contact Material:** Phosphor Bronze

**Plating:** Au over 50µ" (1,27µm) Ni

**Current Rating:** Contact: 1.1A @ 30°C

Temperature Rise

Ground Plane: 7.8A @ 30°C

Temperature Rise

**Operating Temp:** -55°C to +125°C

**Voltage Rating:** 285 VAC

**Max Cycles:** 100

**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 (025-075)

(0,15mm) .006" max (100)

**Board Stacking:** For applications requiring

more than two connectors

per board or 100 positions or

higher, contact [ipg@samtec.com](mailto:ipg@samtec.com)

**Other Options:** See SO Series.

## SPECIFICATIONS

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

### CQTS

Same as QTS except:

UL certification pending

**Plating:** Electro-Polished Selective

**Max Cycles:** 25

**Mates with:** QSS, SQCD, CQSS

Integral metal plane for power or ground

(0,635mm) .025" pitch

Alignment Pin

Polarized

5mm Stack Height	Rated @ -3dB Insertion Loss
Single-Ended Signaling	9 GHz / 18 Gbps
Differential Pair Signaling	8.5 GHz / 17 Gbps

Performance data for other stack heights available at [www.samtec.com?QTS](http://www.samtec.com?QTS)

## ALSO AVAILABLE

Board Spacing Standoffs. See SO Series.

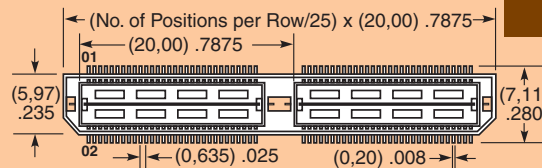
TYPE STRIP	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	A	OTHER OPTION
	-025, -050, -075, -100 (50 total positions per bank)	Specify LEAD STYLE from chart.	-L = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails (QTS only)			QTS Series Only -K = (7,00mm) .275" DIA Polyimide film Pick & Place Pad -TR = Tape & Reel (-075 positions maximum)
QTS (Requires -L or -F plating)			-F = Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails (QTS only)			
CQTS (Requires -C plating)			-C = Electro-Polished Selective (CQTS only)			

## APPLICATION SPECIFIC OPTION

- 11mm & 16mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
- 30µ" (0,76µm) Gold (QTS only)
- Differential Pair and "Partitionable" (combine differential & single-ended banks in same connector) available. (QTS only)
- 125 positions per row (QTS only)
- Edge Mount (QTS only)

Call Samtec.

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



STACK HEIGHTS		
LEAD STYLE	A	MATED HEIGHT
-01	(4,27) .168	(5,00) .198
-02	(7,26) .286	(8,00) .315

Processing conditions will affect mated height.

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

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