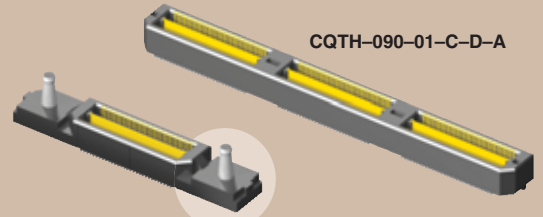


QTH-060-07-F-D-A



CQTH-090-01-C-D-A

QTH-030-01-L-D-A-RT1

0,50mm HI-SPEED HEADER QTH, CQTH SERIES

SPECIFICATIONS

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

QTH

Insulator Material: Liquid Crystal Polymer
Terminal Material: Phosphor Bronze
Plating: Au over 50µ" (1,27µm) Ni
Current Rating: Contact: 1.0A @ 30°C
 Temperature Rise
 Ground Plane: 7.8A @ 30°C
 Temperature Rise
Operating Temp Range: -55°C to +125°C
Voltage Rating: 125 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 (030-060) (0,15mm) .006" max (090-120)
Board Stacking: For applications requiring more than two connectors per board or 120 positions or higher, contact ipg@samtec.com

SPECIFICATIONS

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

CQTH

Same as QTH except:
UL & CSA certification pending
Plating: Electro-Polished Selective
Max Cycles: 25

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. QTH only)
 - Edge Mount & Guide Posts (QTH only)
 - 150 positions per row (QTH only)
- Call Samtec.

Mates with: QSH, CQSH, HFHM, HFHM2, HQCD (See Application Specific note)



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

Integral metal plane for power or ground

Standard Stack Heights from 5mm to 25mm

(0,50mm) .0197" pitch

Retention Option

Polarized



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?QTH

ALSO AVAILABLE

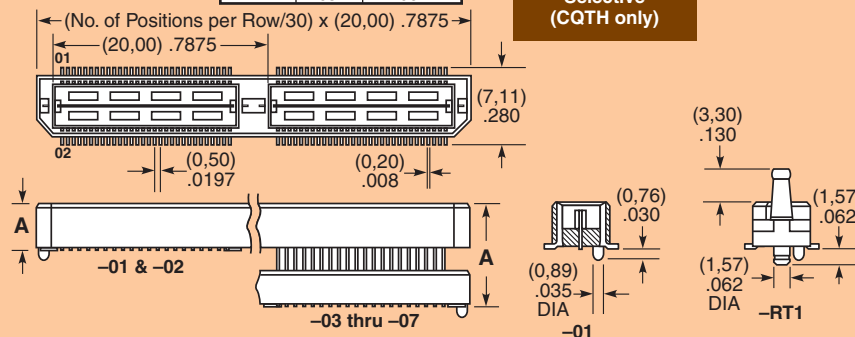
Differential Pair version. See QTH-DP Series.
 Board Spacing Standoffs. See SO Series.

TYPE STRIP	NO. OF POSITIONS PER ROW	LEAD STYLE	PLATING OPTION	D	A	OTHER OPTION
	-030, -060, -090, -120 (60 total positions per bank)	Specify LEAD STYLE from chart.	-L = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails (QTH only) -F = Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails (QTH only) -C = Electro-Polished Selective (CQTH only)			QTH Series Only -K = (7,00mm) .275" DIA Polyimide film Pick & Place Pad -TR = Tape & Reel (-090 positions maximum) -RT1 = Retention Option (-01 Lead Style only & -090 positions maximum)

QTH
(Requires -L or -F plating)

CQTH
(Requires -C plating)

QTH LEAD STYLE	A	HEIGHT WITH QSH
-01	(4,27) .168	(5,00) .198
-02	(7,26) .286	(8,00) .316
-03	(10,27) .404	(11,00) .433
-04	(15,25) .600	(16,00) .630
-05	(18,24) .718	(19,00) .748
-07	(24,24) .954	(25,00) .984



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

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