

0,80mm HI-SPEED HEADER QTE SERIES

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com/QTE

Insulator Material:

Liquid Crystal
Polymer

Terminal Material:

Phosphor Bronze

Plating:

Au over 50µ" (1,27µm) Ni

Current Rating:

Contacts: 1.3A @ 95°C

Ground Plane: 10.1A @ 95°C

Operating Temp Range:

-55°C to +125°C

Voltage Rating:

225 VAC mated with QSE

& 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 4 banks or more,

contact ipg@samtec.com

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.)
- Edge Mount
- 100 positions per row
- Guide Posts, Screw Down & Friction Lock

Call Samtec.

*Note: -C Plating passes 10 year MFG testing

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

Board Mates:

QSE

Cable Mates:

EQCD, EQSD,

EQDP, EQRF

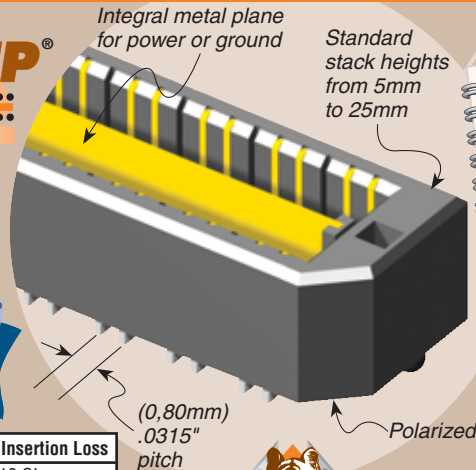
(See Application

Specific note)



5mm Stack Height	Type	Rated @ -3dB Insertion Loss
Single-Ended Signaling	-D	9 GHz / 18 Gbps
Differential Pair Signaling	-D	8 GHz / 16 Gbps
Differential Pair Signaling	-DP	8.5 GHz / 17 Gbps

Performance data for other stack heights available at www.samtec.com/QTE



Protocols Supported

XAUI
PCI Express®
SATA
MGT (Rocket I/O)
Infiniband

Download app notes at:
www.samtec.com/appnote
Contact SIG @ samtec.com
for questions on protocols

ALSO AVAILABLE

Board Spacing Standoffs.
See SO Series.

QTE	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTION
-020, -040, -060, -080	(40 total pins per bank = -D)	Specify LEAD STYLE from chart	-L = 10µ" (0,25µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails	-D = Single-Ended	-K = (7,00mm) .275" DIA Polyimide Film Pick & Place Pad	-TR = Tape & Reel Packaging (-060 positions maximum)
-014, -028, -042, -056	(14 pairs per bank = -D-DP)		-F = Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails	-D-DP = Differential Pair (-01 only)		
		-C* = Electro-Polished Selective 50µ" (1,27µm) min Au over 150µ" (3,81µm) Ni on Signal Pins in contact area, 10µ" (0,25µm) min Au over 50µ" (1,27µm) Ni on Ground Plane in contact area, Matte Tin over 50µ" (1,27µm) min Ni on all solder tails				-RT1 = Retention Option (-01 Lead Style only & -060 positions maximum)

QTE LEAD STYLE	A	HEIGHT WITH QSE
-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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SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 • Fax: 812-948-5047
SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0 • Fax: +49 (0) 89 / 89460-299
SAMTEC NORDIC/BALTIC • Tel: +46-84477280 • Fax: +46-87420413
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SAMTEC ITALY • Tel: 39 039 6890337 • Fax: 39 039 6890315
SAMTEC INDIA • Tel: +91-80-3272 1612 • Fax: +91-80-4152 8187
SAMTEC TAIWAN • Tel: 886-2-2735-6109 • Fax: 886-2-2735-5036
SAMTEC ANZ • Tel: 613 9512 7747 • Fax: 613 9512 7745