

(0,80 mm) .0315"

QTE SERIES

HIGH SPEED GROUND PLANE HEADER

SPECIFICATIONS

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

Insulator Material: Liquid Crystal Polymer Terminal Material: Phosphor Bronze Plating: Au or Sn over 50μ" (1,27 μm) Ni Current Rating: Contact: 2 A per pin (1 pin powered per row) Ground Plane:

11.6 A per ground plane (1 ground plane powered) Operating Temp Range: -55°C to +125°C Voltage Rating: 225 VAC mated with QSE & 5 mm Stack Height

Max Cycles: 100
RoHS Compliant: Yes Processing: Lead-Free Solderable: Yes SMT Lead Coplanarity: (0,10 mm) .004" max (020-060) Board Stacking:

For applications requiring more than two connectors per board contact ipg@samtec.com

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality





ALSO AVAILABLE (MOQ Required)

- 14mm, 15 mm, 22 mm and 30 mm stack height (Caution: Some automatic placement/inspection machines may have component height restrictions. Please consult machinery specifications.)
- 30μ" (0,76 μm) Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount
- 56 (-DP), 80, 100 positions per row
- Guide Posts. Screw Down & Friction Lock
- Retention Option Contact Samtec.

Board Mates: OSE

QTE

Cable Mates: EQCD, EQDP, EQRF (See Also Available note)



Can carried for maximum mateu cyc	160			10 mg
QTE/QSE	Tuno	Rated @ 3dB Insertion Loss		
5 mm Stack Height	Туре	with PCB	effects*	w/o PCB effects**
Single-Ended Signaling	-D	9 GHz / 1	8 Gbps	9 GHz / 18 Gbps
Differential Pair Signaling	-D	8 GHz / 1	6 Gbps	14 GHz / 28 Gbps
Differential Pair Signaling	-DP	8 5 GHz /	17 Ghns	13 5 GHz / 27 Ghns

*Performance data includes effects of a non-optimized PCB.
**Test board losses de-embedded from performance data.

Performance data for other stack heights and complete test data available at www.samtec.com?QTE or contact sig@samtec.com

PINS PER ROW

NO. OF PAIRS



LEAD STYLE

PLATING OPTION

OTHER OPTION

= (7,00 mm)

.275" DIA

Polyimide

Film Pick &

Place Pad

–TR

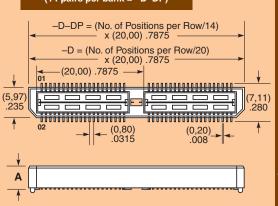
= Tape & Reel

Packaging N/A -05 & -07

lead style)



-014, –028, –042 (14 pairs per bank = -D-DP)







Specify **LEAD STYLE** = Gold Flash from on Signal Pins and chart Ground Plane,

> = 10µ" (0,25 µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails

Matte Tin on tails

-C* = Electro-Polished Selective 50μ" (1,27 μm) Au over 150μ' Ni on S ' (1,27 μm) min (3,81 μm) Ni on Signal Pins in contact area, 10μ" (0,25 μm) min Au over 50μ" (1,27 μm) Ni on Ground Plane in contact area, Matte Tin over 50µ' (1,27 µm) min Ni on all solder tails

*Note: -C Plating passes 10 year MFG testing

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

-D= Single-Ended -D-DP Differential Pair (-01 only)

QTE LEAD STYLE	A	HEIGHT WITH QSE*		
-01	(4,27) .168	(5,00) .197		
-02	(7,26) .286	(8,00) .315		
-03	(10,27) .404	(11,00) .433		
-04	(15,25) .600	(16,00) .630		
-05	(18,26) .718	(19,00) .748		
-07	(24,24) .954	(25,00) .984		
*Processing conditions will affect mated height.				

= Latching Option (N/A on -042 & 060 positions)

OTHER SOLUTIONS

• Board Spacing Standoffs. See SO Series

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

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