

(0.80 mm) .0315"

QTE SERIES

HIGH-SPEED GROUND PLANE HEADER

Integral metal plane

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 50 μ" (1.27 μm) Ni **Current Rating:**

Contact:

2 A per pin (2 pins powered) Ground Plane: 23 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:

Board Mates:

Cable Mates:

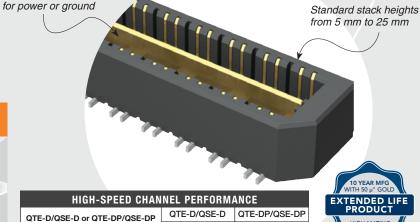
EQCD, EQDF (See Also Available Note)

Standoffs:

POWER/SIGNAL APPLICATION



UMPT/UMPS for flexible two-piece power/signal solutions



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)

- 15 mm, 22 mm and 30 mm stack height
- 30 μ" (0.76 μm) Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount, Guide Posts, Screw Down & Friction Lock
- 56 (-DP), 80, 100 positions per row
- Retention Option

Some lengths, styles and options are non-standard, non-returnable



-020, -040, -060 (40 total pins per bank = -D)

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

STYLE

Specify LEAD

LEAD

@ 5 mm Mated Stack Height

Rating based on Samtec reference

channel.For full SI performance

data visit Samtec.comor contact

SIG@samtec.com

STYLE from chart

-D-DP = (No. of Positions per Row/14) x (20.00) .7875 -D = (No. of Positions per Row/20) x (20.00) .7875 (20.00) .7875 (5.97)(7.11)(0.80) - .0315 (0.20) .008





PLATING OPTION

= Gold Flash on Signal Pins and Ground Plane, Matte Tin on tails

= 10 µ" (0.25 µm) Gold on Signal Pins and Ground Plane, Matte Tin on tails

= Electro-Polished

Selective 50 μ" (1.27 μm) min Au over 150μ" (3.81 μm) Ni on Signal Pins in contact area, 10 μ" (0.25 μm) min Au over 50 μ" (1.27 μm) Ni on Ground Plane in contact area, Matte Tin over 50µ" (1.27 µm) min Ni on all solder tails

C Plating passes
 year MFG testing

–D = Single-Ended

-D-DP Differential Pair (-01 only)



OTHER

OPTION

-TR Tape & Reel Packaging (N/A -05 & -07 lead style)

_1 = Latching Option (N/A on -042 & 060 positions)

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
-09	(13.26) .522	(14.00) .551

*Processing conditions will affect mated height. See SO Series for board space tolerances