



(0.50 mm) .0197" PITCH • QTH/QSH SERIES

QTH **Board Mates:** QSH

QSH **Board Mates:** QTH

QTH/QSH Cable Mates: HQCD, HQDP

Standoffs:

SPECIFICATIONS

Insulator Material: Liquid Crystal Polymer Contact Material: Plating: Au or Sn over 50 μ" (1.27 μm) Ni Current Rating: Contact: Contact:
2 A per pin (2 pins powered)
Ground Plane:
25 A per ground plane
(1 ground plane powered)
Operating Temp Range:
-55 °C to +125 °C

Voltage Rating: 175 VAC (5 mm Stack Height) Max Cycles:

-030, -060, -090 (60 total pins per

bank = -D-020, -040, -060(20 pairs per bank = -D-DP)

PINS PER ROW NO. OF PAIRS

IFAD

STYLE

Specify

LEAD

STYLE

from

chart

QTH LEAD STYLE	A	HEIGHT WITH QSH*
-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

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

(24.24) .954

(13.26) .522

(25.00) .984

(14.00) .551

-07

-09

QSH

PLATING OPTION

-F = Gold flash on contact, Matte Tin on tail

= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail

-C = 50 µ" (1.27 mm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)

-K = (7.00 mm) .275" DIA

OTHER OPTIONS

Polyimide film Pick & Place

Pad (N/A with -05 & -07 lead

& -090)

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

-D

= Single-

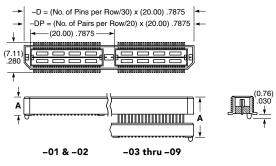
Ended

style) = Latching Option (-01 lead style only) (N/A on -060 (-D-DP)

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

"X"R

-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (N/A -05 to -07 lead style)



View complete specifications at: samtec.com?QTH

PROCESSING

Lead-Free Solderable:

SMT Lead Coplanarity: (0.10 mm) .004 max (030-060)

(0.15 mm) .006" max (090)* *(.004" stencil solution may be available; contact IPG@samtec.com)

Board Stacking:
For applications requiring

more than two connectors contact ipg@samtec.com

STANDARDS

PISMO™ 1:

Visit samtec com/standards for more information.



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



-090 (60 total pins per bank = -D)

PINS PER ROW NO. OF PAIRS

-020, -040, -060

(20 pairs per bank = -D-DP)

on contact, Matte Tin on tail

PLATING

OPTION

= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail

-C = 50 μ" (1.27 mm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)

Ended

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

-K = (8.25 mm) .325" DIA Polyimide film Pick & Place Pad

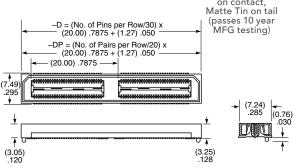
OTHER OPTIONS

= Latching Option (-0'1 lead style only) (N/A on -060 (-D-DP) & -090)

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

"X"R

-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks))



View complete specifications at: samtec.com?QSH

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Samtec:

QTH-030-01-L-D-A QTH-120-01-L-D-A-K QTH-090-03-L-D-A QTH-060-01-L-D-A QTH-060-02-F-D-A-K QTH-090-01-L-D-A QTH-060-01-F-D-A QTH-060-02-L-D-A QTH-020-01-L-D-DP-A QTH-030-01-F-D-A QTH-030-01-H-D-A QTH-030-04-L-D-A QTH-060-01-F-D-A-K-TR QTH-090-04-L-D-A QTH-030-05-F-D-A QTH-060-02-L-D-A-K-TR QTH-060-04-L-D-A-K-TR QTH-040-05-F-D-DP-A QTH-030-02-F-D-A QTH-060-07-F-D-A QTH-030-01-L-D-A-RT1 QTH-090-03-L-D-A-K QTH-040-01-F-D-DP-A QTH-060-03-L-D-A QTH-020-04-L-D-DP-A QTH-040-02-L-D-DP-A QTH-030-01-C-D-A-K QTH-060-02-F-D-A-K-TR QTH-030-09-L-D-A-K QTH-060-01-L-D-A-K QTH-030-01-L-D-RA-K QTH-060-01-C-D-A QTH-120-02-L-D-A-K QTH-090-04-F-D-A QTH-090-05-L-D-A QTH-090-01-L-D-A-K QTH-030-02-L-D-A-K-TR QTH-060-04-F-D-A QTH-020-01-H-D-DP-A QTH-090-03-F-D-A QTH-030-01-L-D-A-K QTH-030-02-L-D-A-K QTH-020-02-F-D-DP-A QTH-030-01-F-D-A-K-TR QTH-040-01-C-D-DP-A-K QTH-030-01-F-D-A-K QTH-060-01-L-D-DP-A QTH-060-05-F-D-A QTH-020-01-L-D-DP-A-K QTH-090-01-F-D-A QTH-030-03-L-D-A-K QTH-030-04-L-D-A-K QTH-020-05-L-D-DP-A QTH-030-07-F-D-A QTH-120-01-L-D-A QTH-120-03-L-D-A QTH-060-01-L-D-A-K-TR QTH-060-05-L-D-A QTH-030-03-F-D-A-K QTH-020-01-F-D-DP-A QTH-060-02-H-D-A-K-TR QTH-020-03-F-D-DP-A QTH-060-04-L-D-A QTH-090-04-L-D-A-K QTH-060-03-L-D-A-K-TR QTH-090-02-L-D-A-K-TR QTH-030-04-F-D-A QTH-020-02-L-D-DP-A QTH-030-07-L-D-A QTH-030-01-L-D-A-K-TR QTH-060-01-H-D-A QTH-030-02-L-D-A QTH-060-03-F-D-A QTH-030-03-L-D-A QTH-040-01-L-D-DP-A-K-TR QTH-040-03-L-D-DP-A QTH-060-02-L-D-A-K QTH-020-01-L-D-DP-A-K-TR QTH-030-03-F-D-A-K-TR QTH-060-02-C-D-A QTH-030-04-F-D-A-K QTH-090-02-F-D-A QTH-030-05-L-D-A QTH-060-04-L-D-A-K QTH-020-03-L-D-DP-A QTH-030-04-L-D-A-K-TR QTH-090-05-F-D-A QTH-040-01-L-D-DP-A-K QTH-060-03-F-D-A-K QTH-030-09-L-D-A-K-TR QTH-060-03-L-D-A-K QTH-060-07-L-D-A QTH-060-01-H-D-A-K QTH-060-01-L-D-A-RT1 QTH-090-01-L-D-A-K-TR QTH-030-02-F-D-A-K-TR QTH-060-02-F-D-A QTH-030-03-F-D-A QTH-040-01-L-D-DP-A QTH-030-01-C-D-A