



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

QTH
Board Mates:
QSH

QSH
Board Mates:
QTH

QTH/QSH
Cable Mates:
HQCD, HQDP

Standoffs:
SO

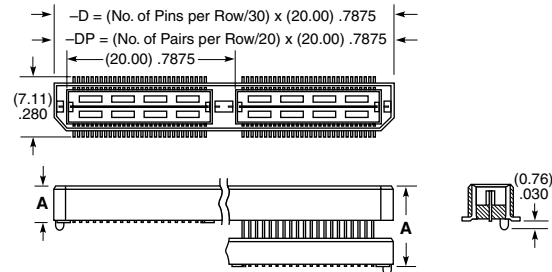
QTH	PINS PER ROW NO. OF PAIRS	LEAD STYLE	PLATING OPTION	TYPE	A	OTHER OPTIONS	"X"R
	-030, -060, -090 (60 total pins per bank = -D)	Specify LEAD STYLE from chart	-F = Gold flash on contact, Matte Tin on tail	-D = Single- Ended		-K = (7.00 mm) .275" DIA Polyimide film Pick & Place Pad (Not available with -05 & -07 lead style)	Leave blank for Tray Packaging
	-020, -040, -060 (20 pairs per bank = -D-DP)		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail	-D-DP = Differential Pair (-01 only)			-TR = Tape & Reel (Not available with -05 & -07 lead style)
			-C = 50 μ" (1.27 μm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)			-L = Latching Option (-01 lead style only) (Not available on -060 (-D-DP) & -090)	-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (Not available with -05 & -07 lead style)

SPECIFICATIONS

Insulator Material:
Liquid Crystal Polymer
Contact 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:
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:
100

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
-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.



-01 & -02 -03 THRU -09

PROCESSING

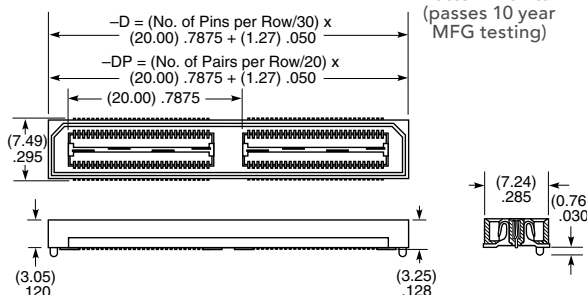
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max
(030-060)
(0.15 mm) .006" max (090)*
*(.004" stencil solution may
be available; contact
ipg@samtec.com)
Board Stacking:
For applications requiring
more than two connectors
contact ipg@samtec.com

View complete specifications at: samtec.com?QTH

QSH	PINS PER ROW NO. OF PAIRS	01	PLATING OPTION	TYPE	A	OTHER OPTIONS	"X"R
	-030, -060, -090 (60 total pins per bank = -D)		-F = Gold flash on contact, Matte Tin on tail	-D = Single- Ended		-K = (8.25 mm) .325" DIA Polyimide film Pick & Place Pad	Leave blank for Tray Packaging
	-020, -040, -060 (20 pairs per bank = -D-DP)		-L = 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail	-D-DP = Differential Pair		-L = Latching Option (Not available on -060 (-D-DP) & -090)	-TR = Tape & Reel (N/A -05 to -07 lead style)
			-C = 50 μ" (1.27 μm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing)				-FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

STANDARDS

PISMO™ 1:
Visit samtec.com/standards
for more information.



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

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-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](#) [QTH-060-01-L-D-RA](#)