



NRZ
25
Gbps



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

QTH
Board Mates:
QSH

QSH
Board Mates:
QTH

QTH/QSH
Cable Mates:
HQCD, HQDP

Standoffs:
SO

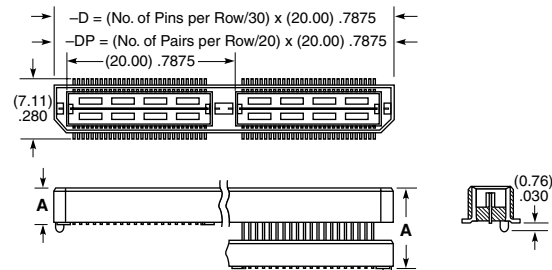
SPECIFICATIONS

Insulator Material:
Liquid Crystal Polymer
Contact Material:
Phosphor Bronze
Plating:
Au or Sn over
50 μ " (1.27 μ m) 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	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 μ m) Gold on contact, Matte Tin on tail	-D-DP = Differential Pair (-01 only)		-L = Latching Option (-01 lead style only) (Not available on -060 (-D-DP) & -090)	-TR = Tape & Reel (Not available with -05 & -07 lead style)
			-C = 50 μ " (1.27 μ m) 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) (Not available with -05 & -07 lead style)

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.



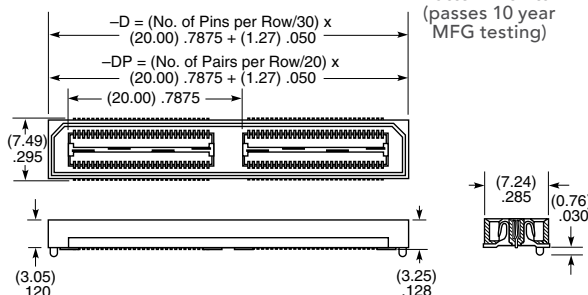
-01 & -02 -03 THRU -09

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 μ m) 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 μ m) 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)



View complete specifications at: samtec.com?QSH

STANDARDS

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



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

Mouser Electronics

Authorized Distributor

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[Samtec:](#)

[QSH-060-01-L-D-A-K-TR](#) [QSH-030-01-L-D-A](#) [QSH-030-01-L-D-K-TR](#) [QSH-040-01-H-D-DP-A-K-TR](#) [QSH-030-01-C-D-A-K](#) [QSH-060-01-C-D-A-K](#) [QSH-060-01-F-D-A-K-TR](#) [QSH-030-01-F-D-A](#) [QSH-060-01-F-D-A](#) [QSH-090-01-F-D-A](#) [QSH-060-01-L-D-A](#) [QSH-030-01-F-D-A-TR](#) [QSH-020-01-L-D-DP-A](#) [QSH-090-01-L-D-A](#) [QSH-030-01-L-D-A-K](#) [QSH-030-01-F-D-A-K](#) [QSH-060-01-H-D-A-K](#) [QSH-080-01-F-D-DP-A](#) [QSH-040-01-H-D-DP-A](#) [QSH-020-01-C-D-DP-A](#) [QSH-020-01-F-D-DP-A-K-TR](#) [QSH-030-01-C-D-A-K-TR](#) [QSH-030-01-F-D](#) [QSH-030-01-F-D-A-K-TR](#) [QSH-090-01-F-D-A-K-TR](#) [QSH-060-01-H-D-A-K-TR](#) [QSH-090-01-H-D-A-K](#) [QSH-060-01-L-D-A-K](#) [QSH-060-01-L-D-A-TR](#) [QSH-040-01-F-D-DP-A-K-TR](#) [QSH-020-01-L-D-DP-A-TR](#) [QSH-090-01-L-D-A-K-TR](#) [QSH-060-01-L-D-A-RT1](#) [QSH-120-01-L-D-A](#) [QSH-040-01-C-D-DP-A-K](#) [QSH-020-01-C-D-DP-A-K](#) [QSH-020-01-L-D-DP-A-K](#) [QSH-030-01-L-D-A-K-TR](#) [QSH-020-01-H-D-DP-A](#) [QSH-040-01-F-D-DP-A](#) [QSH-060-01-L-D-DP-A](#) [QSH-020-01-L-D-DP-A-K-TR](#) [QSH-030-01-L-D-A-TR](#) [QSH-040-01-L-D-DP-A-K](#) [QSH-040-01-C-D-DP-A](#) [QSH-030-01-H-D-A-K](#) [QSH-040-01-L-D-DP-A-K-TR](#) [QSH-090-01-C-D-A](#) [QSH-090-01-F-D-A-K](#) [QSH-020-01-F-D-DP-A-K](#) [QSH-030-01-L-D-A-RT1](#) [QSH-060-01-F-D-A-K](#) [QSH-060-01-C-D-A](#) [QSH-090-01-L-D-A-K](#) [QSH-120-01-F-D-A](#) [QSH-030-01-L-D-RA-K](#) [QSH-120-01-L-D-A-K](#) [QSH-080-01-C-D-DP-A](#) [QSH-020-01-F-D-DP-A](#) [QSH-060-01-F-D-DP-A](#) [QSH-060-01-C-D-A-K-TR](#) [QSH-150-01-L-D-A](#) [QSH-060-01-H-D-A](#) [QSH-030-01-H-D-A](#) [QSH-030-01-H-D-A-K-TR](#) [QSH-040-01-L-D-DP-A](#) [QSH-030-01-C-D-A](#) [QSH-030-01-L-D-K](#) [QSH-090-01-H-D-A](#) [QSH-090-01-C-D-A-K](#) [QSH-040-01-H-D-DP-A-RT1-K](#) [QSH-060-01-C-D-A-RT1](#) [QSH-020-01-L-D-DP-LC-K](#) [QSH-090-01-L-D-A-RT1](#) [QSH-040-01-L-D-DP-RA-K](#) [QSH-060-01-C-D-A-FL](#) [QSH-060-01-F-D-DP-RA-GP](#) [QSH-040-01-C-D-DP-FL-LC-K](#) [QSH-020-01-L-D-DP-RA](#) [QSH-030-01-L-D-L-TR](#) [QSH-040-01-F-D-DP-RA-GP](#) [QSH-060-01-L-D-DP-LC-K](#) [QSH-020-01-L-D-DP-RA-GP](#) [QSH-060-01-F-D-DP-RA](#) [QSH-060-01-L-D-DP-RA-GP](#) [QSH-030-01-L-D](#) [QSH-060-01-H-D-A-TR](#) [QSH-060-01-L-D-LC](#) [QSH-100-01-L-D-DP-A](#) [QSH-030-01-L-D-LC](#) [QSH-040-01-F-D-DP-TR](#) [QSH-090-01-L-D-EM2](#) [QSH-100-01-H-D-DP-A](#) [QSH-080-01-L-D-DP-A-K](#) [QSH-090-01-F-D](#) [QSH-090-01-L-D](#) [QSH-060-01-F-D-TR](#) [QSH-080-01-L-D-DP-LC-K](#) [QSH-020-01-L-D-DP-K](#) [QSH-020-01-L-D-DP-K-TR](#)