

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

QTH
Board Mates:
QSH

QSH
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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 μm) Ni

Operating Temp Range:

-55 °C to +125 °C

Current Rating:

Contact:

2 A per pin (2 pins powered)

Ground Plane:

25 A per ground plane

(1 ground plane powered)

Voltage Rating:

175 VAC/247 VDC

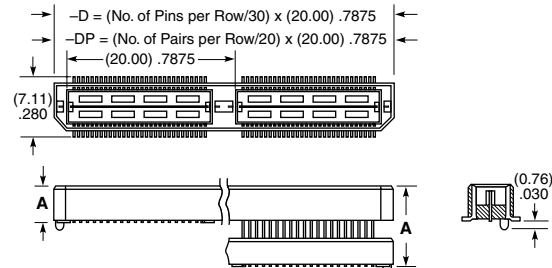
Max Cycles:

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 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)

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

View complete specifications at: samtec.com?QTH

PROCESSING

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0.10 mm) .004" max

(0.30-0.60)

(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

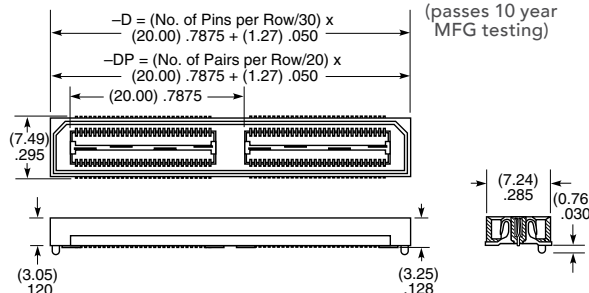
PISMO™ 1:

Visit samtec.com/standards

for more information.



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)



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