



(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
-----	---------------------------	------------	----------------	------	---	---------------

-030, -060, -090
(60 total pins per bank = -D)

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

Specify LEAD STYLE from chart

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

-L
= 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)

-D
= Single-Ended

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

-K
= (7.00 mm) .275" DIA Polyimide film Pick & Place Pad (N/A with -05 & -07 lead style)

-L
= Latching Option (-01 lead style only) (N/A on -060 (-D-DP) & -090)

-TR
= Tape & Reel

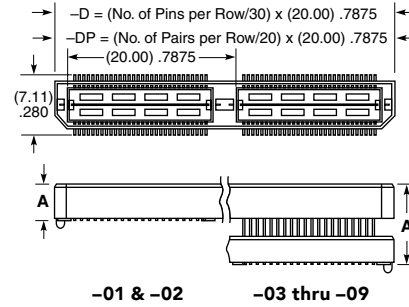
-FR
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

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.



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

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?QTH

QSH	PINS PER ROW NO. OF PAIRS	01	PLATING OPTION	TYPE	A	OTHER OPTIONS
-----	---------------------------	----	----------------	------	---	---------------

-030, -060, -090
(60 total pins per bank = -D)

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

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

-L
= 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)

-D
= Single-Ended

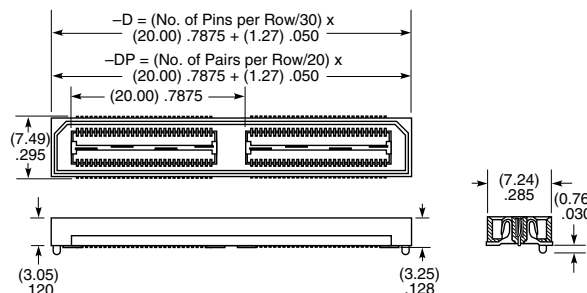
-D-DP
= Differential Pair (-01 only)

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

-L
= Latching Option (-01 lead style only) (N/A on -060 (-D-DP) & -090)

-TR
= Tape & Reel

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



View complete specifications at: samtec.com?QSH

See pg 46-47 for Right-Angle & Edge Mount options.