

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

**QTH**  
Board Mates:  
QSH

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QTH

**QTH/QSH**  
Cable Mates:  
HQCD, HQDP

**Standoffs:**  
SO

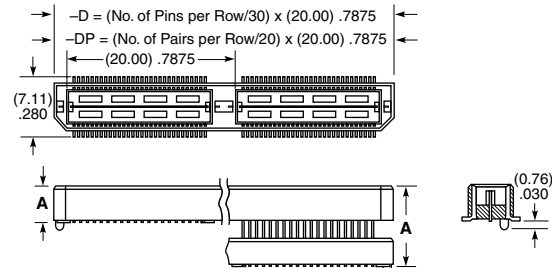
## SPECIFICATIONS

**Insulator Material:**  
Liquid Crystal Polymer  
**Contact Material:**  
Phosphor Bronze  
**Plating:**  
Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) 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 $\mu$ " (0.25 $\mu$ 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 $\mu$ " (1.27 $\mu$ 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

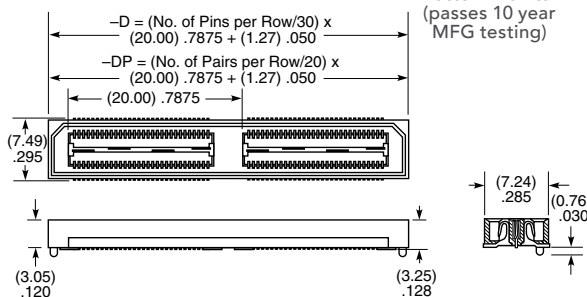
**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max  
(030-060)  
(0.15 mm) .006" max (090)\*  
\*(.004" stencil solution may  
be available; contact  
ipg@samtec.com)  
**Board Stacking:**  
For applications requiring  
more than two connectors  
contact ipg@samtec.com

## STANDARDS

**PISMO™ 1:**  
Visit [samtec.com/standards](http://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 $\mu$ " (0.25 $\mu$ 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 $\mu$ " (1.27 $\mu$ 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)	



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

View complete specifications at: [samtec.com/QSH](http://samtec.com/QSH)

[samtec.com/QSeries](http://samtec.com/QSeries)

F-224 (Rev 25FEB25)

# Mouser Electronics

Authorized Distributor

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[QSH-150-01-L-D-A-GP](#) [QSH-060-01-F-D-L](#) [QSH-020-01-L-D-DP-TR](#) [QSH-060-01-H-D-A-FL](#)