

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

QTH
Board Mates:
QSH

QSH
Board Mates:
QTH

QTH/QSH
Cable Mates:
HQCD, HQDP

Standoffs:
SO

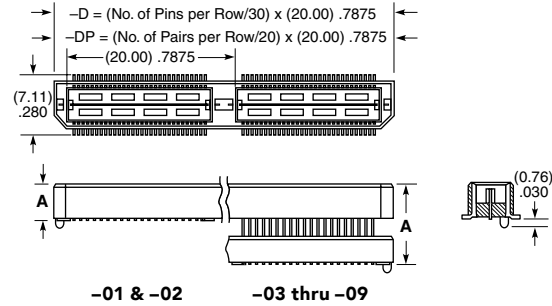
| QTH | PINS PER ROW NO. OF PAIRS | LEAD STYLE | PLATING OPTION | TYPE | A | OTHER OPTIONS | "X"R |
|-----|--|-------------------------------|---|--|---|--|---|
| | -030, -060, -090 (60 total pins per bank = -D) | Specify LEAD STYLE from chart | -F = Gold flash on contact, Matte Tin on tail | -D = Single-Ended | | -K = (7.00 mm) .275" DIA Polyimide film Pick & Place Pad (N/A with -05 & -07 lead style) | -TR =Tape & Reel (N/A -05 to -07 lead style) |
| | -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) | | -L = Latching Option (-01 lead style only) (N/A on -060 (-D-DP) & -090) | -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (N/A -05 to -07 lead style) |
| | | | -C = 50 μ" (1.27 mm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing) | | | | |

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

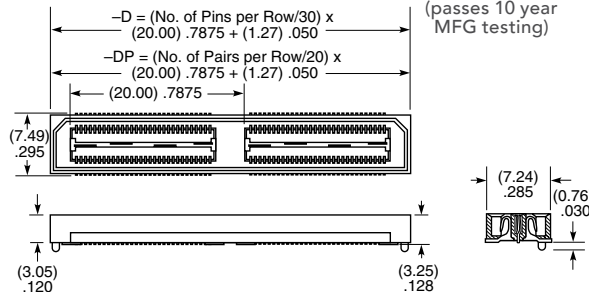
Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max (030-060)
(0.15 mm) .006" max (090)*
*(.004" stencil solution may be available; contact IPG@samtec.com)
Board Stacking:
For applications requiring more than two connectors contact ipg@samtec.com

STANDARDS

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



| 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 | -TR =Tape & Reel (N/A -05 to -07 lead style) |
| | -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) | | -L = Latching Option (-01 lead style only) (N/A on -060 (-D-DP) & -090) | -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |
| | | | -C = 50 μ" (1.27 mm) Electro-Polished Selective Gold on contact, Matte Tin on tail (passes 10 year MFG testing) | | | | |



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

View complete specifications at: samtec.com?QSH