## F-219

## (0.50 mm) .0197"




## SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?QTH

Insulator Material:
Liquid Crystal Polymer
Terminal Material:
Phosphor Bronze
Plating:
Au or Sn over $50 \mu^{\prime \prime}(1.27 \mu \mathrm{~m}) \mathrm{Ni}$
Current Rating:
Contact:
2 A per pin
(2 pins powered)
Ground Plane:
25 A per ground plane
(1 ground plane powered)
Operating Temp Range:
$-55^{\circ} \mathrm{C}$ to $+125^{\circ} \mathrm{C}$
Voltage Rating:
175 VAC ( 5 mm Stack Height)
Max Cycles: 100
RoHS Compliant: Yes

## PROGESSING

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 per board contact ipg@samtec.com

## RECOCNITIONS

For complete scope of
recognitions see
www.samtec.com/quality

## STANDARDS

- PISMO ${ }^{\text {Tm }} 1$

Visit www.samtec.com/standards for more information.

## ALSO AVAILABLE (MOQ Required)

- $15 \mathrm{~mm}, 22 \mathrm{~mm}$ and 30 mm stack height
- $30 \mu^{\prime \prime}(0.76 \mu \mathrm{~m})$ Gold (Specify -H plating for Data Rate cable mating applications.)
- Edge Mount \& Guide Posts
- 80 (-DP), 120, 150
positions per row
- Retention Option


## Note:

Some lengths, styles and options are non-standard, non-returnable

## Board Mates

QSH

## Cable Mates:

HQCD, HQDP
(See Also Available Note)

## Standoffs:

SO

Integral metal plane for
power or ground
 from 5 mm to 25 mm


$.035 \rightarrow$
DIA
 Gold on Signal Pins and Ground Plane,
Matte Tin on tails

## $-C^{*}$

= Electro-Polished
Selective $50 \mu^{\prime \prime}(1.27 \mu \mathrm{~m})$ min Au over $150 \mu^{\prime \prime}$ ( $3.81 \mu \mathrm{~m}$ )
Ni on Signal Pins in
contact area, $10 \mu^{\prime \prime}(0.25 \mu \mathrm{~m}) \mathrm{min}$ Au over $50 \mu^{\prime \prime}(1.27 \mu \mathrm{~m})$
Ni on Ground Plane
in contact area,
Matte Tin over
$50 \mu^{\prime \prime}(1.27 \mu \mathrm{~m})$ min
Ni on all solder tails

## *Note:

-C Plating passes
10 year MFG testing

| $\begin{aligned} & \text { QTH } \\ & \text { LEAD } \\ & \text { STYLE } \end{aligned}$ | A | $\begin{array}{\|l\|} \hline \text { HEIGHT } \\ \text { WITH } \\ \text { QSH } \end{array}$ |
| :---: | :---: | :---: |
| -01 | $\begin{aligned} & (4.27) \\ & .168 \\ & \hline \end{aligned}$ | . 197 |
| -02 | (7.26) .286 | $(8.00)$ <br> .315 |
| -03 | $\begin{gathered} (10.27) \\ .404 \end{gathered}$ | $\begin{gathered} (11.00) \\ \hline .433 \end{gathered}$ |
| -04 | $\begin{gathered} (15.25) \\ \hline .600 \end{gathered}$ | $\begin{gathered} (16.00) \\ .630 \end{gathered}$ |
| -05 | $\begin{gathered} \hline(18.26) \\ \hline .718 \end{gathered}$ | $\begin{gathered} (19.00) \\ .748 \end{gathered}$ |
| -07 | $\begin{gathered} (24.24) \\ \hline .954 \\ \hline \end{gathered}$ | $\begin{gathered} \hline(25.00) \\ .984 \\ \hline \end{gathered}$ |
| -09 | $\begin{gathered} (13.26) \\ \hline .522 \end{gathered}$ | $\begin{gathered} \hline(14.00) \\ .551 \\ \hline \end{gathered}$ |
| *Processing conditions will affect mated height. See SO Series for board space tolerances |  |  |

OTHER
OPTION

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

# Mouser Electronics 

Authorized Distributor

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#### Abstract

Samtec: QTH-030-01-L-D-A QTH-120-01-L-D-A-K QTH-090-03-L-D-A QTH-060-01-L-D-A QTH-060-02-F-D-A-K QTH-090-01-L-D-A QTH-060-01-F-D-A QTH-060-02-L-D-A QTH-020-01-L-D-DP-A QTH-030-01-F-D-A QTH-030-01-H-D-A QTH-030-04-L-D-A QTH-060-01-F-D-A-K-TR QTH-090-04-L-D-A QTH-030-05-F-D-A QTH-060-02-L-D-A-K-TR QTH-060-04-L-D-A-K-TR QTH-040-05-F-D-DP-A QTH-030-02-F-D-A QTH-060-07-F-D-A QTH-030-01-L-D-A-RT1 QTH-090-03-L-D-A-K QTH-040-01-F-D-DP-A QTH-060-03-L-D-A QTH-020-04-L-D-DP-A QTH-040-02-L-D-DP-A QTH-030-01-C-D-A-K QTH-060-02-F-D-A-K-TR QTH-030-09-L-D-A-K QTH-060-01-L-D-A-K QTH-030-01-L-D-RA-K QTH-060-01-C-D-A QTH-120-02-L-D-A-K QTH-090-04-F-D-A QTH-090-05-L-D-A QTH-090-01-L-D-A-K QTH-030-02-L-D-A-K-TR QTH-060-04-F-D-A QTH-020-01-H-D-DP-A QTH-090-03-F-D-A QTH-030-01-L-D-A-K QTH-030-02-L-D-A-K QTH-020-02-F-D-DP-A QTH-030-01-F-D-A-K-TR QTH-040-01-C-D-DP-A-K QTH-030-01-F-D-A-K QTH-060-01-L-D-DP-A QTH-060-05-F-D-A QTH-020-01-L-D-DP-A-K QTH-090-01-F-D-A QTH-030-03-L-D-A-K QTH-030-04-L-D-A-K QTH-020-05-L-D-DP-A QTH-030-07-F-D-A QTH-120-01-L-D-A QTH-120-03-L-D-A QTH-060-01-L-D-A-K-TR QTH-060-05-L-D-A QTH-030-03-F-D-A-K QTH-020-01-F-D-DP-A QTH-060-02-H-D-A-K-TR QTH-020-03-F-D-DP-A QTH-060-04-L-D-A QTH-090-04-L-D-A-K QTH-060-03-L-D-A-K-TR QTH-090-02-L-D-A-K-TR QTH-030-04-F-D-A QTH-020-02-L-D-DP-A QTH-030-07-L-D-A QTH-030-01-L-D-A-K-TR QTH-060-01-H-D-A QTH-030-02-L-D-A QTH-060-03-F-D-A QTH-030-03-L-D-A QTH-040-01-L-D-DP-A-K-TR QTH-040-03-L-D-DP-A QTH-060-02-L-D-A-K QTH-020-01-L-D-DP-A-K-TR QTH-030-03-F-D-A-K-TR QTH-060-02-C-D-A QTH-030-04-F-D-A-K QTH-090-02-F-D-A QTH-030-05-L-D-A QTH-060-04-L-D-A-K QTH-020-03-L-D-DP-A QTH-030-04-L-D-A-K-TR QTH-090-05-F-D-A QTH-040-01-L-D-DP-A-K QTH-060-03-F-D-A-K QTH-030-09-L-D-A-K-TR QTH-060-03-L-D-A-K QTH-060-07-L-D-A QTH-060-01-H-D-A-K QTH-060-01-L-D-A-RT1 QTH-090-01-L-D-A-K-TR QTH-030-02-F-D-A-K-TR QTH-060-02-F-D-A QTH-030-03-F-D-A QTH-040-01-L-D-DP-A QTH-030-01-C-D-A


