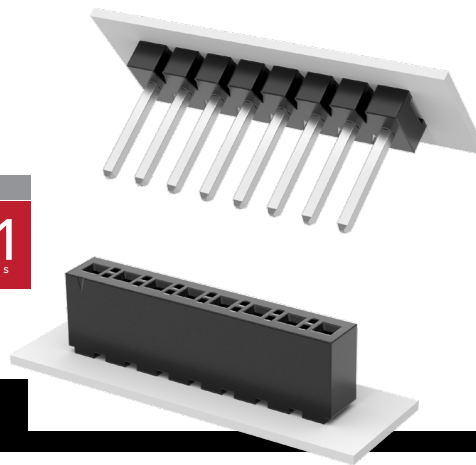


# POWER HEADERS, STACKERS & SOCKETS

(3.96 mm) .156" PITCH • FWJ, HFWJ, JW, FHP SERIES

MAX  
13.1  
A m p s



## FWJ, HFWJ, JW

Board Mates:

FHP

## FHP

Board Mates:

FWJ, HFWJ, JW

## SPECIFICATIONS

### Insulator Material:

FWJ = Black Glass Filled Polyester  
HFWJ, JW = Natural Liquid Crystal Polymer  
FHP = Black LCP

### Terminal Material (FWJ, HFWJ, JW):

Phosphor Bronze  
Contact Material (FHP):  
BeCu

### Plating:

Sn over 50  $\mu$ " (1.27  $\mu$ m) Ni  
Operating Temp Range:  
-55 °C to +105 °C

### Voltage Rating:

600 VAC/849 VDC

### Insertion Depth (FHP):

(3.57 mm) .140" to  
(8.76 mm) .345" or  
pass-through from top  
Wiping Distance (FHP):  
(0.38 mm) .015"

## PROCESSING

### Lead-Free Solderable:

FWJ = No, Lead Wave only  
HFWJ, JW, FHP = Yes

### SMT Lead Coplanarity:

HFWJ, FWJ, JW = (0.20 mm)  
.008" max (02-16)\*  
(0.25 mm) .010" max (17-24)\*  
FHP = (0.15 mm) .006" max\*  
\*(.004" stencil solution  
may be available; contact  
IPG@samtec.com)

| SERIES | NO. OF PINS | LEAD STYLE | PLATING OPTION | S | OTHER OPTIONS |
|--------|-------------|------------|----------------|---|---------------|
|--------|-------------|------------|----------------|---|---------------|

FWJ  
Standard Header

01 thru 24

Specify  
LEAD  
STYLE  
from  
chart  
below

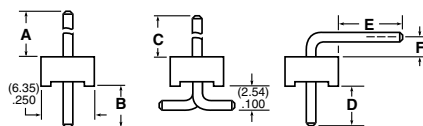
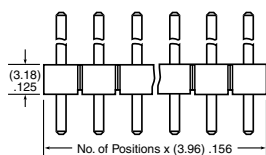
-T  
= Matte Tin

Leave blank for Through-hole

-RA  
= Right-angle (Style -02 & -04 only)

-VS  
= Surface Mount Requires HFWJ  
(2 pins/row minimum)  
Style -05 not available.

-P  
= Pick & Place Pad (3 Pos. min.)  
(6.98 mm) .275" min. post height  
(-VS only)



| LEAD STYLE | A            | B            | C            | D           | E            | F           |
|------------|--------------|--------------|--------------|-------------|--------------|-------------|
| -01        | (11.43) .450 | (4.45) .175  | (10.46) .412 | -           | -            | -           |
| -02        | (12.70) .500 | -            | (11.73) .462 | (4.45) .175 | (8.13) .320  | (2.54) .100 |
| -04        | (20.55) .809 | (3.96) .156  | (19.10) .752 | (3.96) .156 | (13.56) .534 | (4.95) .195 |
| -05*       | (3.81) .150  | (12.07) .475 | -            | -           | -            | -           |

\*FWJ Only

| JW | NO. OF PINS | 04 | PLATING OPTION | S | STACK HEIGHT | POST HEIGHT | OTHER OPTIONS |
|----|-------------|----|----------------|---|--------------|-------------|---------------|
|----|-------------|----|----------------|---|--------------|-------------|---------------|

02 thru 24

-T  
= Matte Tin

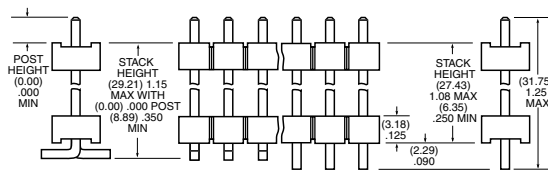
- "XXX"  
= Stacker Height  
(in inches)  
(0.13 mm) .005" increments

- "XXX"  
= Post Height  
(in inches)

Leave blank for Through-hole

-VS  
= Surface Mount  
(2 pins/row minimum)

-P  
= Pick & Place Pad  
(3 Pos. min.)  
(6.98 mm) .275" min.  
post height (-VS only)



| FHP | NO. OF PINS | LEAD STYLE | PLATING OPTION | S | OTHER OPTIONS |
|-----|-------------|------------|----------------|---|---------------|
|-----|-------------|------------|----------------|---|---------------|

02 thru 24

-01  
= Through-hole

-T  
= Matte Tin

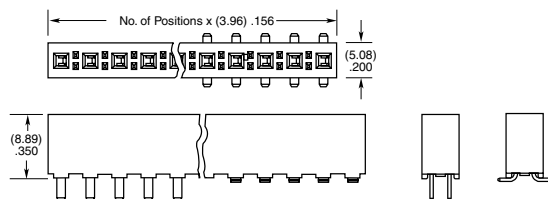
-02  
= Surface Mount

-LC  
= Locking Clip  
(Manual placement required)  
(-02 lead style only)

-TR  
= Tape & Reel Packaging  
(Available on positions 2-18)  
(-02 lead style only)

-K  
= (6.50 mm) .256" DIA  
Polyimide film  
Pick & Place Pad  
(2-4 positions require -"X"R)  
(-02 lead style only)

-FR  
= Full Reel Tape & Reel  
(must order max. quantity per reel; contact Samtec for quantity breaks)  
(Available on positions 2-18)  
(-02 lead style only)



-01 -02

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

[samtec.com?FWJ](http://samtec.com?FWJ), [samtec.com?HFWJ](http://samtec.com?HFWJ), [samtec.com?JW](http://samtec.com?JW) or [samtec.com?FHP](http://samtec.com?FHP)