

(3.96 mm) .156"

FWJ, HFWJ, JW SERIES

# POWER HEADERS & BOARD STACKERS

Mates with:  
FHP

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?FWJ](http://www.samtec.com?FWJ), [www.samtec.com?HFWJ](http://www.samtec.com?HFWJ) or [www.samtec.com?JW](http://www.samtec.com?JW)

**Insulator Material:**  
FWJ = Black Glass Filled Polyester  
HFWJ, JW = Natural Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze

**Plating:**  
Sn over 50 μm (1.27 μm) Ni  
**Operating Temp Range:**  
-55 °C to +105 °C

**Voltage Rating:**  
600 VAC/845 VDC  
**Standard Creepage:**  
FWJ: (2.82 mm) .111"  
HFWJ, JW: (3.92 mm) .154"  
**Standard Clearance:**  
(2.82 mm) .111

**RoHS Compliant:**  
Yes

## PROCESSING

**Lead-Free Solderable:**  
FWJ = No, Lead Wave only  
HFWJ, JW = Yes

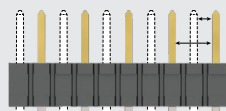
**SMT Lead Coplanarity:**  
(0.20 mm) .008" max (02-16)\*  
(0.25 mm) .010" max (17-24)\*  
\*(.004" stencil solution may be available; contact IPG@samtec.com)

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## CREEPAGE AND CLEARANCE



Selectively loading contacts achieves customer specific creepage and clearance requirements.  
Contact [asp@samtec.com](mailto:asp@samtec.com)

| TYPE STRIP                 | NO. OF PINS  | LEAD STYLE | PLATING OPTION | S    | OTHER OPTION   |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
|----------------------------|--|------------|----------------|------|--|---|--------|---|--------|---|--------|---|-------|----|-------|-------------------|--|--|------------------------------|
| FWJ<br>= Standard Header   | <table border="1"> <thead> <tr> <th colspan="2">FHP/HFWJ</th> </tr> <tr> <th>PINS</th> <th>CURRENT RATING (PER CONTACT)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>13.1 A</td> </tr> <tr> <td>2</td> <td>11.2 A</td> </tr> <tr> <td>3</td> <td>10.3 A</td> </tr> <tr> <td>4</td> <td>9.2 A</td> </tr> <tr> <td>24</td> <td>6.7 A</td> </tr> </tbody> </table> | FHP/HFWJ   |                | PINS | CURRENT RATING (PER CONTACT)   | 1 | 13.1 A | 2 | 11.2 A | 3 | 10.3 A | 4 | 9.2 A | 24 | 6.7 A | -T<br>= Matte Tin |  |  | Leave blank for Through-hole |
| FHP/HFWJ                   |  |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| PINS                       | CURRENT RATING (PER CONTACT)   |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| 1                          | 13.1 A   |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| 2                          | 11.2 A   |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| 3                          | 10.3 A   |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| 4                          | 9.2 A  |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| 24                         | 6.7 A  |            |                |      |  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
| HFWJ<br>= High Temp Header |  |            |                |      | -RA<br>= Right-angle (Style -02 & -04 only)  |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
|                            |  |            |                |      | -VS<br>= Surface Mount Requires HFWJ (2 pins/row minimum) Style -05 not available. |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |
|                            |  |            |                |      | -P<br>= Pick & Place Pad (3 Pos. min.) (6.98 mm) .275" min. post height (-VS only) |   |        |   |        |   |        |   |       |    |       |                   |  |  |                              |

**Specify LEAD STYLE from chart below.**

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

\*FWJ Only

| JW | NO. OF PINS | 04 | PLATING OPTION    | S | STACK HEIGHT   | POST HEIGHT  | OTHER OPTION                 |
|----|-------------|----|-------------------|---|--|--|------------------------------|
|    |             |    | -T<br>= Matte Tin |   | -“XXX”<br>= Stacker Height (in inches) (0.13 mm) .005" increments<br>Example: -250 = (6.35 mm) .250" |  | Leave blank for Through-hole |
|    |             |    |                   |   |  | -VS<br>= Surface Mount (2 pins/row minimum)  |                              |
|    |             |    |                   |   |  | -“XXX”<br>= Post Height (in inches)  |                              |
|    |             |    |                   |   |  | -P<br>= Pick & Place Pad (3 Pos. min.) (6.98 mm) .275" min. post height (-VS only) |                              |

**02 thru 24**

Due to technical progress, all designs, specifications and components are subject to change without notice.

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