

(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 = 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)

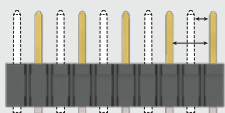
## RECOGNITIONS

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



FILE NO. E111594

## 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 = 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 = Matte Tin			Leave blank for Through-hole
FHP/HFWJ																			
PINS	CURRENT RATING (PER CONTACT)																		
1	13.1 A																		
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3	10.3 A																		
4	9.2 A																		
24	6.7 A																		
HFWJ = High Temp Header					-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)														

**Specify LEAD STYLE from chart below.**

LEAD STYLE	A	B	C	D	E	F
-01	(11.43) .450	(4.45)	(10.46) .412			
-02	(12.70) .500	.175	(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 OPTION
			-T = Matte Tin		-“XXX” = Stacker Height (in inches) (0.13 mm) .005" increments Example: -250 = (6.35 mm) .250"		Leave blank for Through-hole
						-VS = Surface Mount (2 pins/row minimum)	
						-“XXX” = Post Height (in inches)	
						-P = 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.