



# .156" POWER HEADERS FWJ, HFWJ, JW SERIES

## SPECIFICATIONS

Mates with:  
FHP

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

### FWJ

Insulator Material:  
Black Glass Filled Polyester

Terminal Material:  
Phosphor Bronze

Plating:  
Sn over 50µ" (1,27µm) Ni

Operating Temp Range:  
-55°C to +105°C

RoHS Compliant: Yes  
Lead-Free Solderable:  
Wave only

### HFWJ

For complete specifications and recommend PCB layouts see [www.samtec.com?HFWJ](http://www.samtec.com?HFWJ)

Same as FWJ except:  
Insulator Material:  
Natural Liquid Crystal Polymer

### Processing:

Max Processing Temp:  
230°C for 60 seconds,  
or 260°C for 20 seconds 3x  
Lead-Free Solderable: Yes  
SMT Lead Coplanarity:  
(0,20mm) .008" max (02-16)  
(0,25mm) .010" max (17-24)



TYPE STRIP	NO. OF PINS	LEAD STYLE	PLATING OPTION	S	TAIL OPTION																																													
FWJ = Standard Header	CURRENT RATING	-T = Matte Tin	-T = Matte Tin	RUGGEDIZED BY SAMTEC	Leave blank for Through-hole																																													
HFWJ = High Temp Header																																																		
<table border="1"> <thead> <tr> <th>AMBIENT TEMP</th> <th>FHP/(H)FWJ</th> </tr> </thead> <tbody> <tr> <td>20°C</td> <td>14A</td> </tr> <tr> <td>40°C</td> <td>12.2A</td> </tr> <tr> <td>60°C</td> <td>10.1A</td> </tr> <tr> <td>75°C</td> <td>8.2A</td> </tr> </tbody> </table>		AMBIENT TEMP	FHP/(H)FWJ	20°C	14A	40°C	12.2A	60°C	10.1A	75°C	8.2A	Specify LEAD STYLE from chart below.																																						
AMBIENT TEMP	FHP/(H)FWJ																																																	
20°C	14A																																																	
40°C	12.2A																																																	
60°C	10.1A																																																	
75°C	8.2A																																																	
<p>Note: Some lengths, styles and options are non-standard, non-returnable.</p>																																																		
<p>01 thru 24</p>		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> <th>B</th> <th>LEAD STYLE</th> <th>C</th> <th>LEAD STYLE</th> <th>D</th> <th>E</th> <th>F</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(11,43) .450</td> <td>(4,45) .175</td> <td>-01</td> <td>(10,46) .412</td> <td>-02</td> <td>(4,45) .175</td> <td>(8,13) .320</td> <td>(2,54) .100</td> </tr> <tr> <td>-02</td> <td>(12,70) .500</td> <td></td> <td>-02</td> <td>(11,73) .462</td> <td>-02</td> <td>(3,96) .156</td> <td>(13,56) .534</td> <td>(4,95) .195</td> </tr> <tr> <td>-04</td> <td>(20,55) .809</td> <td>(3,96) .156</td> <td>-04</td> <td>(19,10) .752</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>-05</td> <td>(3,81) .150</td> <td>(12,07) .475</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p>*FWJ Only</p>				LEAD STYLE	A	B	LEAD STYLE	C	LEAD STYLE	D	E	F	-01	(11,43) .450	(4,45) .175	-01	(10,46) .412	-02	(4,45) .175	(8,13) .320	(2,54) .100	-02	(12,70) .500		-02	(11,73) .462	-02	(3,96) .156	(13,56) .534	(4,95) .195	-04	(20,55) .809	(3,96) .156	-04	(19,10) .752					-05	(3,81) .150	(12,07) .475						
LEAD STYLE	A	B	LEAD STYLE	C	LEAD STYLE	D	E	F																																										
-01	(11,43) .450	(4,45) .175	-01	(10,46) .412	-02	(4,45) .175	(8,13) .320	(2,54) .100																																										
-02	(12,70) .500		-02	(11,73) .462	-02	(3,96) .156	(13,56) .534	(4,95) .195																																										
-04	(20,55) .809	(3,96) .156	-04	(19,10) .752																																														
-05	(3,81) .150	(12,07) .475																																																
<p>Processing:</p> <p>Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x Lead-Free Solderable: Yes SMT Lead Coplanarity: (0,20mm) .008" max (02-16) (0,25mm) .010" max (17-24)</p>		<p>-RA = Right Angle (Style -02 &amp; -04 only)</p> <p>-VS = Surface Mount Requires HFWJ (2 pins/row minimum) Style -05 not available.</p> <p>-VS-P = Surface Mount with Pick &amp; Place Pad (3 Pos. min.) (6,98mm) .275" min. post height</p>																																																

## SPECIFICATIONS

Mates with:  
FHP

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

Insulator Material:  
Natural Liquid Crystal Polymer

Terminal Material:  
Phosphor Bronze

Plating:  
Sn over 50µ" (1,27µm) Ni

RoHS Compliant: Yes

### Processing:

Max Processing Temp:  
230°C for 60 seconds,  
or 260°C for 20 seconds 3x  
Lead-Free Solderable: Yes  
SMT Lead Coplanarity:  
(0,20mm) .008" max (02-16)  
(0,25mm) .010" max (17-24)



JW	NO. ROW	04	PLATING OPTION	S	STACK HEIGHT	POST HEIGHT	TAIL OPTION										
			-T = Matte Tin		- "XXX" = Stacker Height (in inches) (0,13mm) .005" increments Example: -250 = (6,35mm) .250"		Leave blank for Through-hole										
<p>02 thru 24</p>							<p>-VS = Surface Mount (2 pins/row minimum)</p> <p>-VS-P = Surface Mount with Pick &amp; Place Pad (3 pos. min.) (6,98mm) .275" min. post height</p>										
<p>Processing:</p> <p>Max Processing Temp: 230°C for 60 seconds, or 260°C for 20 seconds 3x Lead-Free Solderable: Yes SMT Lead Coplanarity: (0,20mm) .008" max (02-16) (0,25mm) .010" max (17-24)</p>		<table border="1"> <thead> <tr> <th>AMBIENT TEMP</th> <th>FHP/JW</th> </tr> </thead> <tbody> <tr> <td>20°C</td> <td>16.9A</td> </tr> <tr> <td>40°C</td> <td>14.6A</td> </tr> <tr> <td>60°C</td> <td>12.1A</td> </tr> <tr> <td>75°C</td> <td>9.9A</td> </tr> </tbody> </table> <p>6 POSITIONS POWERED</p>					AMBIENT TEMP	FHP/JW	20°C	16.9A	40°C	14.6A	60°C	12.1A	75°C	9.9A	
AMBIENT TEMP	FHP/JW																
20°C	16.9A																
40°C	14.6A																
60°C	12.1A																
75°C	9.9A																

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

WWW.SAMTEC.COM