



# .200" POWER HEADERS FWS, HFWS, HPM, HPW, SW SERIES

## SPECIFICATIONS

For complete specifications see [www.samtec.com?FWS](http://www.samtec.com?FWS) [www.samtec.com?HFWS](http://www.samtec.com?HFWS) or [www.samtec.com?HPM](http://www.samtec.com?HPM)

**FWS/HFWS**  
**Insulator Material:** Glass Filled Polyester (FWS) Liquid Crystal Polymer (HFWS)  
**Terminal Material:** Phosphor Bronze  
**Plating:** Sn over 50µ" (1.27µm) Ni  
**Operating Temp Range:** -55°C to +105°C  
**Voltage Rating:** 500 VAC mated with PSS



**HPM**  
 Same as HFWS except: not CSA rated  
**Terminal Material:** Copper Alloy

**Processing:** (HPM & HFWS-VS)  
**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 (02-15) (0,25mm) .010" max (16-20)

TYPE STRIP	NO. PINS	LEAD STYLE	PLATING OPTION	S	TAIL OPTION	OTHER OPTION	
FWS = Standard Header							
HFWS = High Temp Header							
HPM = High Temp High Power Header							
Mates with: PSS, HPF							
<b>01 thru 20</b>							
<b>Specify LEAD STYLE from chart below.</b>							
LEAD STYLE	A	B	C	D	E	F	G
-01	(4,57) .180	(11,94) .470	—	—	—	(10,72) .422	(8,64) .340
-02	(4,57) .180	(13,21) .520	(2,54) .100	(4,57) .180	(8,08) .318	(12,24) .482	(8,38) .330
-04	(4,09) .161	(21,06) .829	(4,95) .195	(3,96) .156	(13,82) .544	—	—
-05	(4,57) .180	(3,81) .150	—	—	—	—	—
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Leave blank for Through-Hole</p> <p><b>-RA</b> = Right Angle</p> <p><b>-VS</b> = Surface Mount (2 pins/row minimum) Requires HFWS or HPM</p> </div> <div style="width: 45%;"> <p><b>-VS-P</b> = Surface Mount with Pick &amp; Place Pad (3 Pos. min.) (6,98mm) .275" min. post height</p> </div> </div>							
<b>CURRENT RATING</b>							
<b>MATE</b>		<b>RATING</b>					
PSS	6.8A @ 30°C Temperature Rise						
HPF	7.9A @ 30°C Temperature Rise						

## SPECIFICATIONS

For complete specifications see [www.samtec.com?HPW](http://www.samtec.com?HPW) or [www.samtec.com?SW](http://www.samtec.com?SW)

**HPW/SW**  
**Insulator Material:** Liquid Crystal Polymer (HPW/SW-VS) Glass Filled Polyester (SW-TH)  
**Terminal Material:** Copper Alloy (HPW) Phosphor Bronze (SW)  
**Plating:** SN over 50µ" (1,27µm) Ni  
**Operating Temp Range:** -55°C to + 105°C



**Processing:** (HPW & SW-VS)  
**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.

TYPE STRIP	NO. PINS	04	PLATING OPTION	S	STACK HEIGHT	POST HEIGHT	TAIL OPTION
HPW = High Temp High Power							
SW = Standard Stacker							
Mates with: PSS, HPF							
<b>02 thru 20</b>							
<b>Due to technical progress, all designs, specifications and components are subject to change without notice.</b>							
<b>WWW.SAMTEC.COM</b>							
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Leave blank for Through-Hole</p> <p><b>-VS</b> = Surface Mount (2 pins/row minimum)</p> <p><b>-VS-P</b> = Surface Mount with Pick &amp; Place Pad (3 Pos. min.) (6,98mm) .275" max. post height</p> </div> <div style="width: 45%;"> <p><b>-T</b> = Matte Tin</p> <p><b>-“XXX”</b> = Stacker Height (in inches) (0,13mm) .005" increments Example: -250 = (6,35mm) .250"</p> <p><b>-“XXX”</b> = Post Height (in inches)</p> </div> </div>							
<p><b>Note:</b> Some lengths, styles and options are non-standard, non-returnable.</p>							