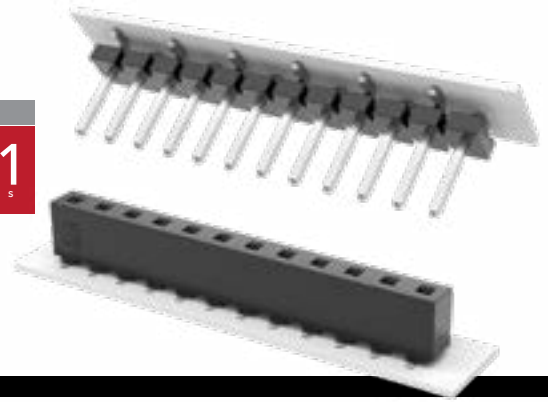


# POWER HEADERS, STACKERS & SOCKETS

MAX  
16.1  
A m p s



(5.08 mm) .200" PITCH • HPM, HPW, HPF SERIES

**HPM, HPW**  
Board Mates:  
HPF

**HPF**  
Board Mates:  
HPM, HPW

## SPECIFICATIONS

**Insulator Material:**  
HPW/HPM = Glass Filled Polyester (Through-hole), Natural Liquid Crystal Polymer (Surface Mount)  
HPF = Black LCP  
**Terminal Material (HPM/HPW):**  
Copper Alloy  
**Contact Material (HPF):**  
BeCu  
**Plating:**  
Sn over 50  $\mu$ " (1.27  $\mu$ m) Ni  
**Operating Temp Range:**  
-55 °C to +105 °C  
**Voltage Rating:**  
HPM/HPF = 850 VAC/1200 VDC  
**Insertion Depth (HPF):**  
(3.68 mm) .145" to (8.26 mm) .325" (.368" (9.35 mm) plus board thickness minimum for bottom entry)  
**Wiping Distance (HPF):**  
(0.38 mm) .015"

## PROCESSING

**Lead-Free Solderable:**  
HPW-VS, HPM-VS, HPF = Yes  
HPM -TH, HPM -RA & HPW -TH = No, Lead Wave only  
**SMT Lead Coplanarity:**  
HPM = (0.20 mm) .008" max (02-15)\*  
HPM = (0.25 mm) .010" max (16-20)\*  
HPW = (0.20 mm) .008" max\*  
HPF = (0.15 mm) .006" max (02-10)\*  
HPF = (0.20 mm) .008" max (11-20)\*  
\*(.004" stencil solution may be available; contact ipg@samtec.com)

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

HPM	NO. OF PINS	LEAD STYLE	PLATING OPTION	S	TAIL OPTION	OTHER OPTION
High Temp High Power Header	01 thru 20	Specify LEAD STYLE from chart below	-T = Matte Tin		Leave blank for Through-hole -RA = Right-angle (-02 & -04 lead style only) -VS = Surface Mount (2 pins/row minimum) (-01 & -02 lead style only)	-P = Pick & Place Pad (3 Pos. min.) (-VS only) (Not Available with -05 lead style)

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	-	-	-	-	-

HPW	NO. OF PINS	LEAD STYLE	PLATING OPTION	S	STACK HEIGHT	POST HEIGHT	OTHER OPTIONS
High Temp High Power	02 thru 20	-T = Matte Tin	-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" max. post height (-VS only)

HPF	NO. OF PINS	LEAD STYLE	PLATING OPTION	S	OTHER OPTIONS
	02 thru 20	-01 = Through-hole -02 = Surface Mount	-T = Matte Tin		-LC = Locking Clip (Manual placement required) (-02 lead style only) -TR = Tape & Reel Packaging (14 positions max.) (Style -02 only) -FR = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (14 positions max.) (Style -02 only) -K = (6.50 mm) .256" DIA Polyimide film Pick & Place Pad

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