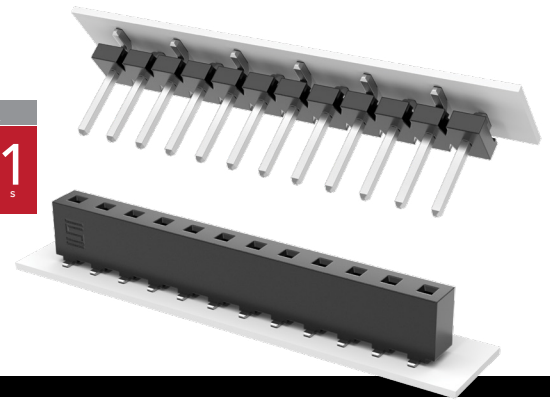


# POWER HEADERS, STACKERS & SOCKETS

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

MAX  
16.1  
A m p s



**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/1202 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)\*  
(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

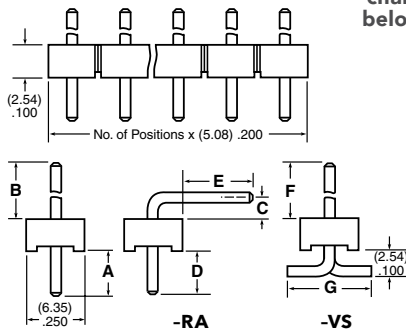
01 thru 20

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 | 04 | PLATING OPTION | S | STACK HEIGHT | POST HEIGHT | OTHER OPTIONS |
|-----|-------------|----|----------------|---|--------------|-------------|---------------|
|-----|-------------|----|----------------|---|--------------|-------------|---------------|

High Temp  
High Power

02 thru 20

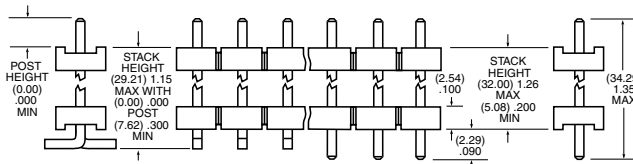
-T  
= Matte Tin

- "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)

-K  
= (6.50 mm)  
.256" DIA  
Polyimide  
film Pick  
& Place Pad

-FR  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec  
for quantity  
breaks)  
(14 positions max.)  
(Style -02 only)

