

# FLEX STACK

# FLEXIBLE .025" SQ BOARD STACKERS

(2.54 mm) .100" PITCH • HW SERIES



## HW

### Board Mates:

SSW, SSQ, ESW, ESQ,  
CES, SLW, BSW, BCS,  
SSM, HLE, PHF

### Cable Mates:

IDSS, IDSD

## SPECIFICATIONS

### Insulator Material:

HW-SM Top = Natural LCP  
HW-SM Bottom = Black LCP  
HW-TH = Natural LCP

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Operating Temp Range:

-55 °C to +125 °C with Gold  
-55 °C to +105 °C with Tin

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.15 mm) .006" max\*  
\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

| HW | NO. PINS<br>PER ROW | LEAD<br>STYLE | PLATING<br>OPTION | ROW<br>OPTION | STACKER<br>HEIGHT | SM | OTHER<br>OPTION |
|----|---------------------|---------------|-------------------|---------------|-------------------|----|-----------------|
|----|---------------------|---------------|-------------------|---------------|-------------------|----|-----------------|

01 thru 50  
(Through-hole)

02 thru 36  
(Surface  
mount)

Specify  
LEAD  
STYLE  
from  
chart

-F  
= Gold flash  
on contact,  
Matte Tin  
on tail

-L  
= 10  $\mu$ "  
(0.25  $\mu$ m)  
Gold on  
contact  
area of  
longer tail,  
Matte Tin  
on tail

-G  
= 10  $\mu$ "  
(0.25  $\mu$ m)  
Gold on  
contact  
area of  
longer tail,  
Gold flash  
on balance

-T  
= Matte  
Tin

-S  
= Single  
Row

-D  
= Double  
Row

-T  
= Triple  
Row  
(Through-  
hole only)

-Q  
= Double  
Row  
.200"  
(5.08 mm)  
row space  
(Through-  
hole only)

-"XXX"  
= Stacker  
Height  
(in inches)

Through-  
hole =  
(5.08 mm)  
.200" Min.

Surface  
mount =  
(6.35 mm)  
.250" Min.

Leave  
blank for  
Through-  
hole

-"XXX"  
= HW-TH

Tail Length  
(in inches)  
(1.40 mm)  
.055" min.  
Example:  
-250  
= (6.35 mm) .250"

-LL  
= Locking Lead  
(Through-  
hole only)  
(Shortest  
dimension  
between the tail  
and the post is  
the end that will  
be crimped.  
Available on tails  
from (2.29 mm)  
.090" to (7.87 mm)  
.310" only.)  
Single row, 01 &  
02 positions & -Q  
row not available

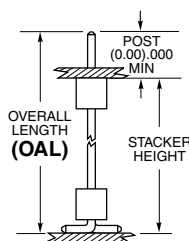
-"XXX"  
= Polarized  
(Specify omitted  
pin position)

-A  
= Alignment Pin  
(Metal or plastic  
at Samtec  
discretion)  
(Surface  
mount only)

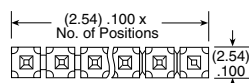
-TR  
= Tape & Reel  
(4-27 pins  
per row only)  
(Not Available  
on Lead Styles  
10, 11, 12 & 20)  
(Surface  
mount only)

-FR  
= Full Reel  
Tape & Reel  
(must order max.  
quantity per reel;  
contact Samtec  
for quantity  
breaks)  
(4-27 pins  
per row only)  
(Not Available  
on Lead Styles  
10, 11, 12 & 20)  
(Surface  
mount only)

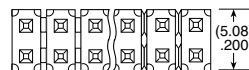
| LEAD<br>STYLE | OAL<br>(TH)   |
|---------------|---------------|
| -07           | (10.92) .430  |
| -08           | (13.46) .530  |
| -09           | (18.54) .730  |
| -10           | (21.08) .830  |
| -11           | (23.62) .930  |
| -12           | (26.16) 1.030 |
| -13           | (31.24) 1.230 |
| -14           | (36.32) 1.430 |
| -15           | (16.00) .630  |
| -16           | (11.30) .445  |
| -17           | (12.19) .480  |
| -19           | (33.78) 1.330 |
| -20           | (28.70) 1.130 |



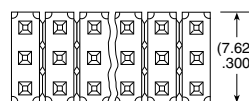
| LEAD<br>STYLE | OAL<br>(SMT)  |
|---------------|---------------|
| -08           | (11.81) .465  |
| -09           | (16.89) .665  |
| -10           | (19.43) .765  |
| -11           | (21.97) .865  |
| -12           | (24.51) .965  |
| -15           | (14.35) .565  |
| -16           | (9.65) .380   |
| -17           | (10.54) .415  |
| -20           | (27.05) 1.065 |



-S

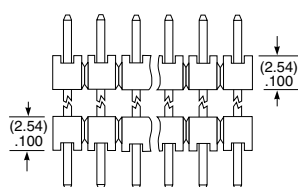


-D

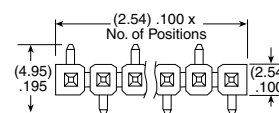


-T or -Q\*

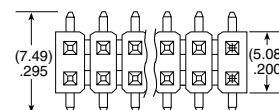
-Q\* same as -T except middle  
row pins are removed



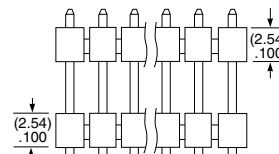
HW-TH



-S



-D



HW-SM

## ALSO AVAILABLE Contact Samtec

### Other platings

Locking Clip available with  
double row HW-SM  
(Manual placement required)

### Notes:

For added mechanical  
stability, Samtec recommends  
mechanical board spacers be  
used in applications with gold or  
selective gold plated connectors.  
Contact ipg@samtec.com for  
more information.

This Series is non-standard,  
non-returnable.

samtec.com?HW-TH or samtec.com?HW-SM

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Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.