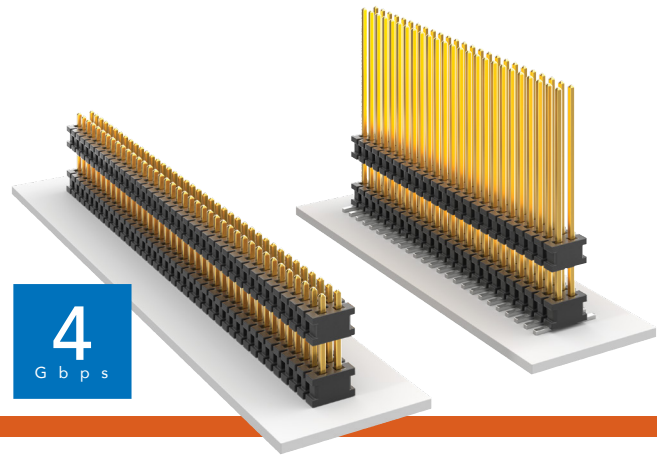


# FLEX STACK

# MICRO BOARD STACKER

(1.27 mm) .050" PITCH • FW SERIES

4  
Gbps



**FW**  
**Board Mates:**  
CLP, FLE

**Cable Mates:**  
FFSD

## SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Sn or Au over 50  $\mu$ " (1.27  $\mu$ m) Ni  
**Operating Temp Range:**  
-55 °C to +125 °C

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (02-30)  
(0.15 mm) .006" max (31-50)\*  
\*(.004" stencil solution  
may be available; contact  
ipg@samtec.com)

## MATED HEIGHT

| FW<br>LEAD STYLE     | CLP<br>LEAD STYLE | MATED<br>HEIGHT*   |
|----------------------|-------------------|--------------------|
| FW-XX-03-X-X-233-065 | -02               | (8.13 mm)<br>.320" |
| FW-XX-03-X-X-303-065 |                   | (9.91 mm)<br>.390" |

\*Processing conditions will affect mated height.

## ALSO AVAILABLE

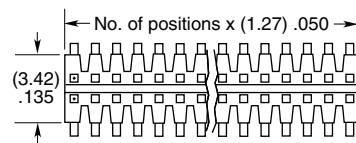
Smaller stack heights

**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.

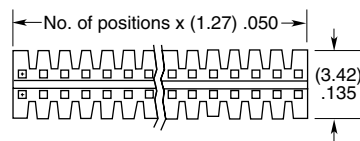
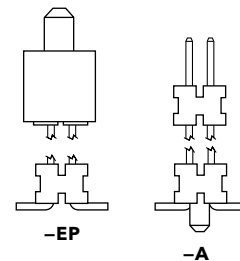
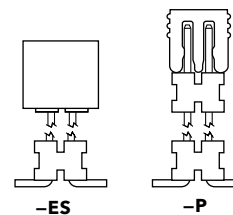
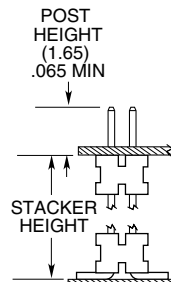
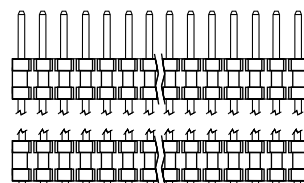
This Series is non-standard,  
non-returnable.

| FW | NO. OF PINS<br>PER ROW | LEAD<br>STYLE                             | PLATING<br>OPTION                                                                                                                                                                                                                       | D | STACKER<br>HEIGHT                                                                            | POST<br>HEIGHT                                                                                                                  | OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|----|------------------------|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|    | 02 thru 50             | Specify<br>LEAD<br>STYLE<br>from<br>chart | -F<br>= Gold flash<br>on post,<br>Matte Tin<br>on tail<br><br>-L<br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold<br>on post,<br>Matte Tin<br>on tail<br><br>-G<br>= 10 $\mu$ "<br>(0.25 $\mu$ m)<br>Gold<br>on post,<br>Gold flash<br>on tail |   | -"XXX"<br>= Stacker<br>Height<br>(in inches)<br><br>Example:<br>-250<br>= (6.35 mm)<br>.250" | -"XXX"<br>= Post<br>Height<br>(in inches)<br><br>(1.65 mm)<br>.065"<br>minimum<br><br>Example:<br>-.065<br>= (1.65 mm)<br>.065" | -ES<br>= End Shroud<br>(-.075 post<br>height only.<br>Mate only<br>with CLP)<br>(5.46 mm) .215"<br>to (15.49 mm) .610"<br>stacker height only<br>9 pins/row min.<br><br>-EP<br>= End Shroud<br>with Guide Post<br>(-.075 post<br>height only.<br>Mate only<br>with CLP)<br>(5.46 mm) .215"<br>to (15.49 mm) .610"<br>stacker height only<br>9 pins/row min.<br><br>-A<br>= Alignment Pin<br>(3 positions min.)<br>(5.46 mm) .215" to<br>(15.75 mm) .620"<br>stacker height only<br>(SMT only)<br><br>-P<br>= Pick & Place Pad<br>(5 positions min.)<br>(SMT only)<br><br>-TR<br>= Tape & Reel<br>(Max overall height<br>= Post+Stacker<br>Height+Pad+<br>Alignment Pin =<br>(17.78) .700")<br>(SMT only)<br><br>-FR<br>= Full Reel<br>Tape & Reel<br>(must order max.<br>quantity per reel;<br>contact Samtec<br>for quantity<br>breaks)<br>(SMT only) |

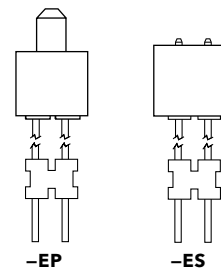
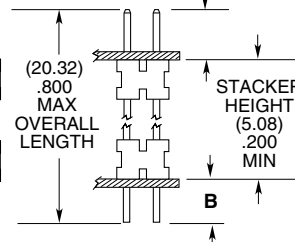
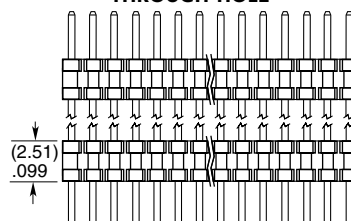
| LEAD<br>STYLE | STACKER<br>HEIGHT              | STACKER<br>+ POST               |
|---------------|--------------------------------|---------------------------------|
| -03           | (5.46) to (8.51)<br>.215 .335  | (7.11) to (10.16)<br>.280 .400  |
| -05           | (8.64) to (15.49)<br>.340 .610 | (10.29) to (17.15)<br>.405 .675 |



## SURFACE MOUNT



## THROUGH-HOLE



| LEAD<br>STYLE | TAIL<br>(B) |
|---------------|-------------|
| -01           | (1.14) .045 |
| -02           | (1.91) .075 |
| -04           | (2.29) .090 |

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

F-224 (Rev 06JAN25)

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.