

# 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 μ" (1.27 μm) 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)\*

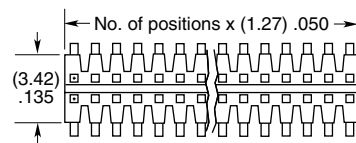
\*(.004" stencil solution

may be available; contact

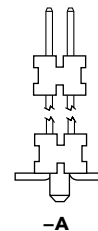
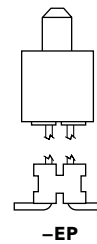
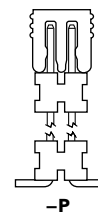
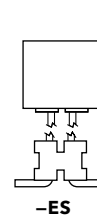
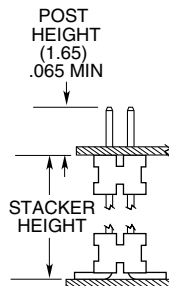
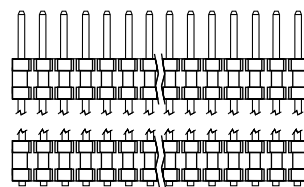
ipg@samtec.com)

| FW | NO. OF PINS PER ROW | LEAD STYLE                    | PLATING OPTION                                | D | STACKER HEIGHT                                                                  | POST HEIGHT                                                                                             | OPTION                                                                                                                                  |
|----|---------------------|-------------------------------|-----------------------------------------------|---|---------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
|    | 02 thru 50          | Specify LEAD STYLE from chart | -F<br>= Gold flash on post, Matte Tin on tail |   | -“XXX”<br>= Stacker Height (in inches)<br>Example:<br>-250<br>= (6.35 mm) .250" | -“XXX”<br>= Post Height (in inches)<br>(1.65 mm) .065" minimum<br>Example:<br>-065<br>= (1.65 mm) .065" | -ES<br>= End Shroud (-075 post height only. Mate only with CLP) (5.46 mm) .215" to (15.49 mm) .610" stacker height only 9 pins/row min. |

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



## SURFACE MOUNT



-EP  
= End Shroud with Guide Post (-075 post height only. Mate only with CLP) (5.46 mm) .215" to (15.49 mm) .610" stacker height only 9 pins/row min.

-A  
= Alignment Pin (3 positions min.) (5.46 mm) .215" to (15.75 mm) .620" stacker height only (SMT only)

-P  
= Pick & Place Pad (5 positions min.) (SMT only)

-TR  
= Tape & Reel (Max overall height = Post+Stacker Height+Pad+Alignment Pin = (17.78) .700") (SMT only)

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

## MATED HEIGHT

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

\*Processing conditions will affect mated height.

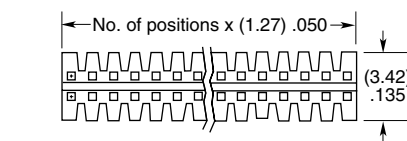
## ALSO AVAILABLE

Smaller stack heights

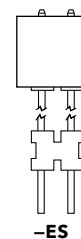
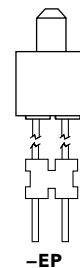
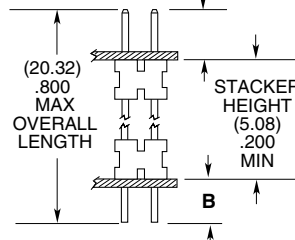
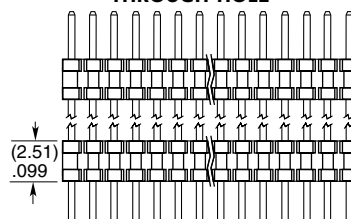
## Notes:

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.



## THROUGH-HOLE



| LEAD STYLE | TAIL (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.