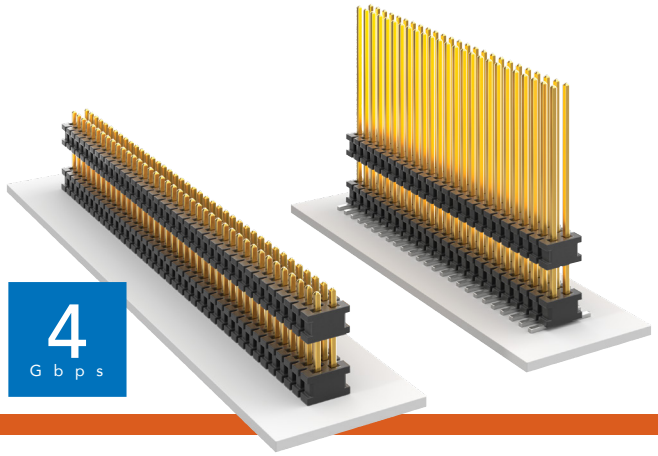
FLEX STACK

# MICRO BOARD STACKER

## (1.27 mm) .050" PITCH • FW SERIES




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

## SPECIFICATIONS

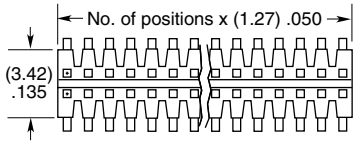
**Insulator Material:**
Black Liquid Crystal Polymer
**Terminal Material:**
Phosphor Bronze
**Plating:**
Sn or Au over 50 µ" (1.27 µm) Ni
**Operating Temp Range:**
-55 °C to +125 °C

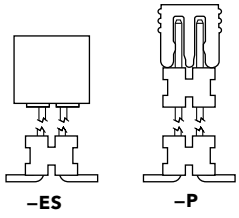
## PROCESSING

**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)

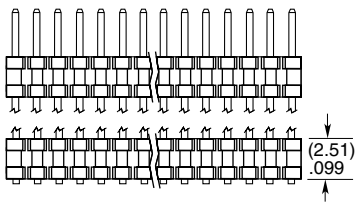
| FW | – | NO. OF PINS PER ROW | – | LEAD STYLE | – | PLATING OPTION | – | D | – | STACKER HEIGHT | – | POST HEIGHT | – | OPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 02 thru 50 | | Specify LEAD STYLE from chart | | –F = Gold flash on post, Matte Tin on tail<br>–L = 10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

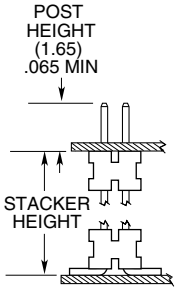
| LEAD STYLE | STACKER HEIGHT | STACKER + POST |
|---|---|---|
| –03 | (5.46) .215 to (8.51) .335 | (7.11) .280 to (10.16) .400 |
| –05 | (8.64) .340 to (15.49) .610 | (10.29) .405 to (17.15) .675 |

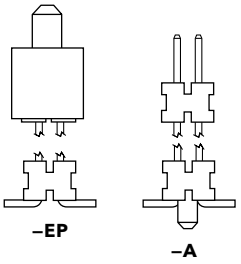



**SURFACE MOUNT**



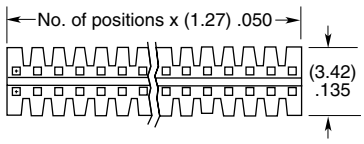



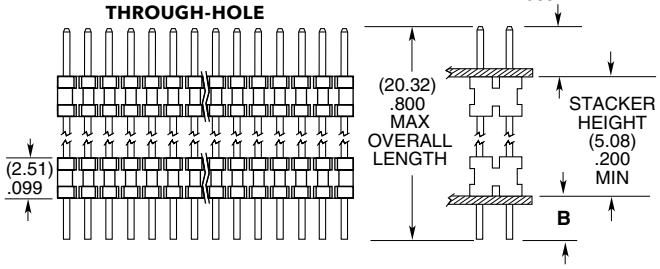

## MATED HEIGHT

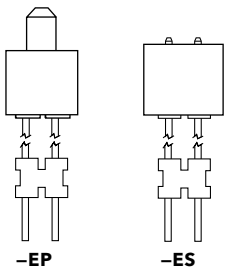
| FW LEAD STYLE | CLP LEAD STYLE | MATED HEIGHT* |
|---|---|---|
| FW-XX-03-X-X-233-065 | -02 | (8.13 mm) .320" |
| FW-XX-03-X-X-303-065 | | (9.91 mm) .390" |

*Processing conditions will affect mated height.




**THROUGH-HOLE**




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

## 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.




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.