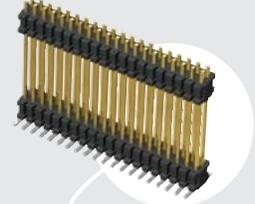


# FLEX STACK



FW-12-05-G-D-530-101

FW-20-05-F-D-610-065



## FW-SM SERIES

(1.27 mm) .050"

# SMT MICRO BOARD STACKER

### SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?FW-SM](http://www.samtec.com?FW-SM)

**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  
**RoHS Compliant:**  
Yes

### 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)

### RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

### ALSO AVAILABLE (MOQ Required)

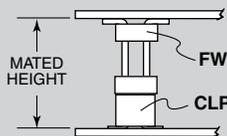
- Smaller stack heights

**Board Mates:**  
CLP, FLE

**Cable Mates:**  
FFSD

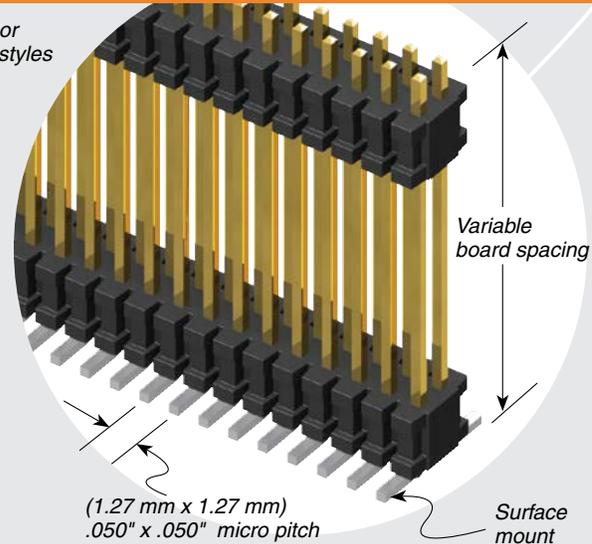
Low-profile or skyscraper styles

### APPLICATIONS



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

\*Processing conditions will affect mated height.



FW	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	STACKER HEIGHT	POST HEIGHT	OPTION
	02 thru 50	Specify LEAD STYLE from chart	<p><b>-F</b> = Gold flash on post, Matte Tin on tail</p> <p><b>-L</b> = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail</p> <p><b>-G</b> = 10 μ" (0.25 μm) Gold on post, Gold flash on tail</p>		<p><b>-“XXX”</b> = Stacker Height (in inches) Example: -250 = (6.35 mm) .250"</p>	<p><b>-“XXX”</b> = Post Height (in inches) (1.65 mm) .065" minimum Example: -065 = (1.65 mm) .065"</p>	<p><b>-ES</b> = 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.</p> <p><b>-EP</b> = 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.</p> <p><b>-A</b> = Alignment Pin (3 positions min.) (5.46 mm) .215" to (15.75 mm) .620" stacker height only</p> <p><b>-P</b> = Pick &amp; Place Pad (5 positions min.)</p> <p><b>-TR</b> = Tape &amp; Reel (Max overall height = Post+Stacker Height+ Pad+Alignment Pin = .700 (17.78))</p>

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

**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.

Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

# Mouser Electronics

Authorized Distributor

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[FW-05-03-L-D-278-122-A](#) [FW-05-03-L-D-290-100](#) [FW-06-03-F-D-236-149-P-TR](#) [FW-06-03-L-D-215-122-P-TR](#) [FW-06-05-F-D-275-175](#) [FW-06-05-L-D-315-157](#) [FW-07-03-F-D-275-065-A](#) [FW-07-03-G-D-215-185-A](#) [FW-07-03-L-D-258-142-A-P-TR](#) [FW-07-03-L-D-290-065](#) [FW-05-05-F-D-400-065-TR](#) [FW-05-05-FM-D-410-150-A-P](#) [FW-08-05-L-D-370-087-A](#) [FW-08-05-L-D-425-170-P](#) [FW-08-05-L-D-500-175-A](#) [FW-10-03-F-D-167-120-TR](#) [FW-10-03-F-D-233-120](#) [FW-10-03-G-D-303-065](#) [FW-10-03-L-D-215-075-A](#) [FW-10-03-L-D-228-075-EP-A-P-TR](#) [FW-10-03-L-D-290-110](#) [FW-10-05-F-D-315-180-P](#) [FW-10-05-G-D-485-190-P](#) [FW-07-03-G-D-275-120](#) [FW-04-03-L-D-305-065](#) [FW-05-03-F-D-233-120-P-TR](#) [FW-07-03-L-D-303-065](#) [FW-07-05-G-D-345-100-A](#) [FW-08-03-G-D-303-065-A](#) [FW-05-05-F-D-442-065-P-TR](#) [FW-05-05-F-D-450-100-A](#) [FW-06-03-F-D-288-080-A](#) [FW-06-05-F-D-523-065-A](#) [FW-06-05-G-D-448-133](#) [FW-06-05-L-D-472-072-A-P](#) [FW-07-03-F-D-220-138-P](#) [FW-07-03-G-D-250-100-P](#) [FW-07-03-G-D-250-100-TR](#) [FW-07-05-F-D-393-240-A](#) [FW-07-05-G-D-335-120](#) [FW-04-03-L-D-215-115](#) [FW-04-05-G-D-383-089-A](#) [FW-04-05-L-D-530-090](#) [FW-05-03-G-D-215-150-A](#) [FW-05-03-L-D-215-100-A-P-TR](#) [FW-05-03-L-D-275-065-A-P-TR](#) [FW-05-05-F-D-275-275](#) [FW-05-05-F-D-450-155-A](#) [FW-05-05-F-D-600-075](#) [FW-05-05-L-D-250-190-A](#) [FW-07-03-G-D-170-130-P-TR](#) [FW-08-05-L-D-420-065-A](#) [FW-09-03-L-D-195-160](#) [FW-09-03-L-D-226-174-A-P](#) [FW-09-03-L-D-226-174-A-P-TR](#) [FW-03-03-G-D-125-180](#) [FW-03-03-G-D-163-075](#) [FW-06-05-F-D-472-155](#) [FW-06-05-L-D-500-100-A-P](#) [FW-06-05-L-D-550-125](#) [FW-07-03-F-D-128-065-P-TR](#) [FW-07-03-L-D-215-075-TR](#) [FW-07-05-G-D-385-065-A-P](#) [FW-08-03-F-D-215-090-A](#) [FW-08-03-F-D-215-120-P-TR](#) [FW-08-03-F-D-270-065-A](#) [FW-08-03-F-D-288-080-A](#) [FW-08-03-L-D-215-129](#) [FW-08-03-L-D-215-150-P-TR](#) [FW-08-05-F-D-410-065](#) [FW-08-05-F-D-410-065-A-P-TR](#) [FW-08-05-F-D-410-140](#) [FW-08-05-L-D-275-145-A](#) [FW-08-05-L-D-333-100](#) [FW-09-05-L-D-343-075-ES-A-P-TR](#) [FW-05-05-F-D-370-190-P-TR](#) [FW-05-05-F-D-377-137-P-TR](#) [FW-05-05-G-D-394-138](#) [FW-05-05-G-D-465-138-P-TR](#) [FW-05-05-L-D-340-160-A](#) [FW-05-05-L-D-370-091-A-P-TR](#) [FW-05-05-L-D-590-084-A-TR](#) [FW-06-03-F-D-128-065](#) [FW-06-03-F-D-170-080-TR](#) [FW-06-03-L-D-215-080-A](#) [FW-06-05-F-D-370-200-A](#) [FW-06-05-L-D-550-125-A-TR](#) [FW-07-03-L-D-236-150](#) [FW-07-05-F-D-350-150-A-P-TR](#) [FW-08-03-F-D-307-079](#) [FW-08-03-L-D-210-160](#) [FW-08-03-L-D-215-120-P-TR](#) [FW-08-05-F-D-340-175-P](#) [FW-08-05-L-D-440-150](#) [FW-07-03-L-D-210-065](#) [FW-08-03-F-D-335-065-A](#)