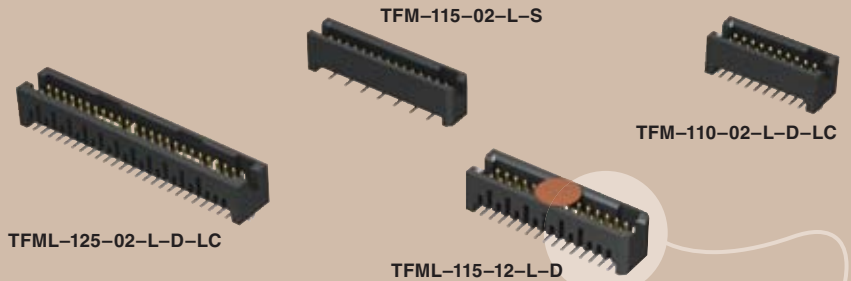




(1,27mm) .050"

TFM, TFML SERIES



# SMT HIGH RELIABLE HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?TFM](http://www.samtec.com?TFM) or [www.samtec.com?TFML](http://www.samtec.com?TFML)

**Insulator Material:** Black Liquid Crystal Polymer  
**Terminal Material:** Phosphor Bronze  
**Plating:** Au or Sn over 50µ" (1,27µm) Ni  
**Voltage Rating:** 350 VAC mated with SFM  
**Operating Temp Range:** -55°C to +125°C  
**RoHS Compliant:** Yes



CURRENT RATING	
AMBIENT TEMP	TFM/SFM
20°C	5A
40°C	4.5A
60°C	3.9A
95°C	2.6A

6 POSITIONS (2x3) POWERED

**Processing:** Lead-Free Solderable: Yes  
**SMT Lead Coplanarity:** (0,10mm) .004" max (05-25) (0,15mm) .006" max (30-50)

## APPLICATION SPECIFIC OPTION

Solder nail option for (2,36mm) .093" thick board available. Call Samtec.

**Note:** Other Gold plating options available. Contact Samtec.

**Note:** Some sizes, styles and options are non-standard, non-returnable.

**TFM**  
**Mates with:** SFM, SFMC, SFSD

**TFML**  
**Mates with:** SFML, SFSD (-XL option), SFSDT (-XL option)

## MATED HEIGHT

LEAD STYLE	SFM	MATED HEIGHT*
-02		(6,35) .250
-12	-02	(8,13) .320
-22		(9,91) .390
-32		(11,81) .465

\*Processing conditions will affect mated height.

1,27mm SFM/TFM	Rated @ 3dB Insertion Loss
6,35mm Stack Height	
Single-Ended Signaling	6.0 GHz / 12 Gbps
Differential Pair Signaling	7.0 GHz / 14 Gbps

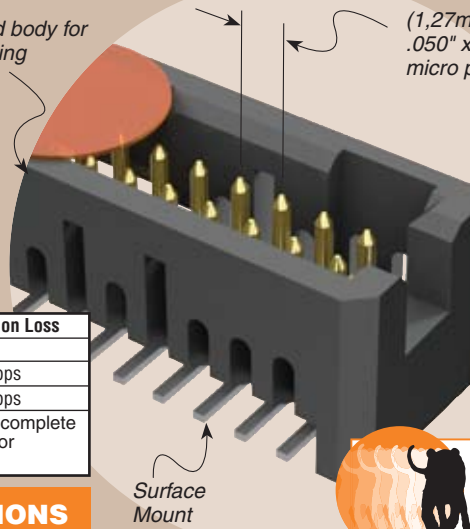
Performance data for other stack heights and complete test data available at [www.samtec.com?TFM](http://www.samtec.com?TFM) or contact [sig@samtec.com](mailto:sig@samtec.com)

## COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options.

Shrouded body for blind mating

(1,27mm x 1,27mm) .050" x .050" micro pitch



Surface Mount

Choice of four body heights



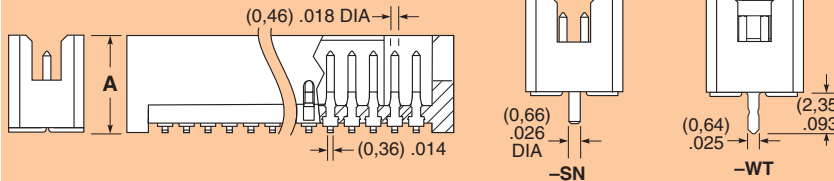
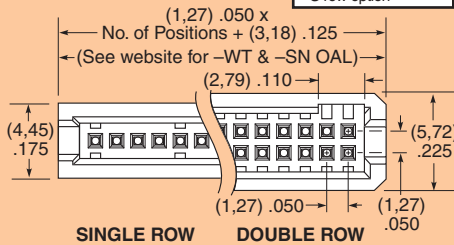
- Passes 10 Year MFG
- Locking option
- Locking clip option
- Weld tab option
- Solder nail option for up to 25Gs



**ELP**  
 EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 30µ" Gold  
 1,000 cycles when mated with SFM

TYPE STRIP	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTION										
TFM = Standard	05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Call Samtec for other sizes)	Specify LEAD STYLE from chart	-L = 10µ" (0,25µm) Gold on post, Matte Tin on tail	-S = Single Row (TFM only)	Specify only -A, -LC, -SN or -WT -A = Alignment Pin -LC = Locking Clip (Manual placement required) -SN = Solder Nail (-02 lead style & -D row only) -WT = Weld Tab -02 lead style & 05 thru 50 positions only (N/A with TFML)										
TFML = Locking (Lead style -02 only)		<table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> </tr> </thead> <tbody> <tr> <td>-02</td> <td>(5,72) .225</td> </tr> <tr> <td>-12*</td> <td>(7,49) .295</td> </tr> <tr> <td>-22*</td> <td>(9,27) .365</td> </tr> <tr> <td>-32*</td> <td>(11,18) .440</td> </tr> </tbody> </table> <p>* N/A with 07 or -S row option</p>	LEAD STYLE	A	-02	(5,72) .225	-12*	(7,49) .295	-22*	(9,27) .365	-32*	(11,18) .440	-S = 30µ" (0,76µm) Gold on post, Matte Tin on tail	-D = Double Row	Specify only -K or -P -K = Polyimide Film Pick & Place Pad -P = Plastic Pick & Place Pad
LEAD STYLE	A														
-02	(5,72) .225														
-12*	(7,49) .295														
-22*	(9,27) .365														
-32*	(11,18) .440														
					Specify -TR last -TR = Tape & Reel										



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

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