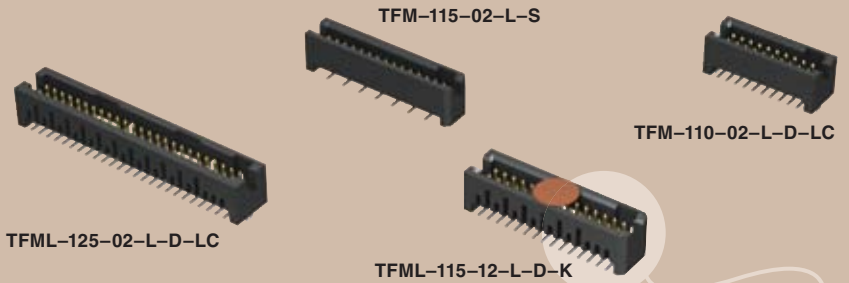




(1,27mm) .050"

TFM, TFML SERIES



# SMT HIGH RELIABILITY 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

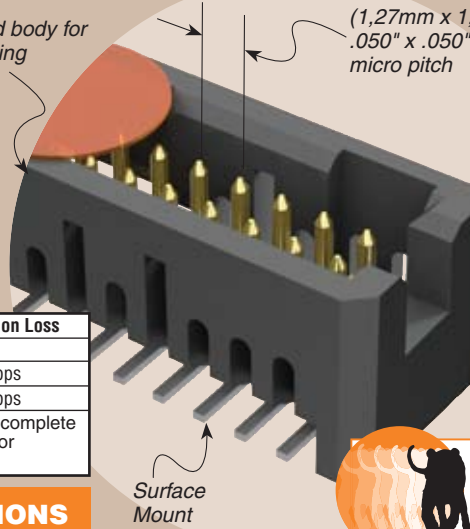
Performance data for other stack heights and complete test data available at [www.samtec.com?TFM](http://www.samtec.com?TFM) or contact [sig@samtec.com](mailto:sig@samtec.com)

### 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



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

Choice of four body heights



**ELP**  
 EXTENDED LIFE PRODUCT

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

TYPE STRIP	1	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)	-A = Alignment Pin (N/A with -LC, -SN, -WT, -DH)
TFML = Locking				-S = 30µ" (0,76µm) Gold on post, Matte Tin on tail	-D = Double Row	-LC = Locking Clip (N/A with -A, -SN, -WT, -DH) (Manual placement required)
					-DH = Double Horizontal (TFM only)	-SN = Solder Nail (N/A with -A, -LC, -WT, -DH) (-02 lead style & -D row only)
						-WT = Weld Tab (-02 lead style only. (N/A with -A, -LC, -SN, TFML) (Standard with -DH)
						-K = Polyimide Film Pick & Place Pad (N/A with -P, -DH)
						-P = Plastic Pick & Place Pad (N/A with -K, -DH)
						-TR = Tape & Reel (Specify Last)

LEAD STYLE	A
-02	(5,72) .225
-12*	(7,49) .295
-22*	(9,27) .365
-32*	(11,18) .440

\* N/A with 07, -DH or -S row option

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

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