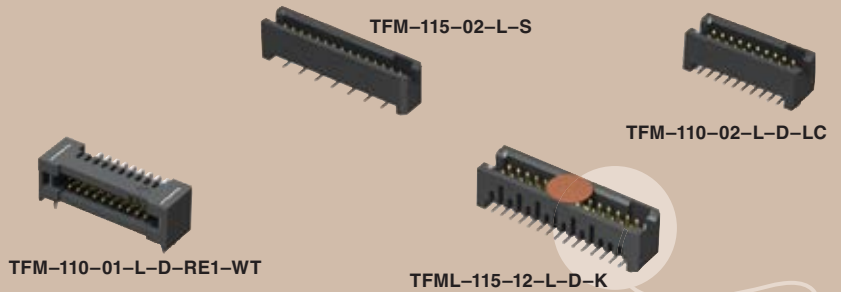




(1,27 mm) .050"

TFM, TFML SERIES



# SMT & THROUGH-HOLE 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" (1,27 µm) Ni  
**Voltage Rating:** 350 VAC mated with SFM  
**Operating Temp Range:** -55°C to +125°C  
**RoHS Compliant:** Yes

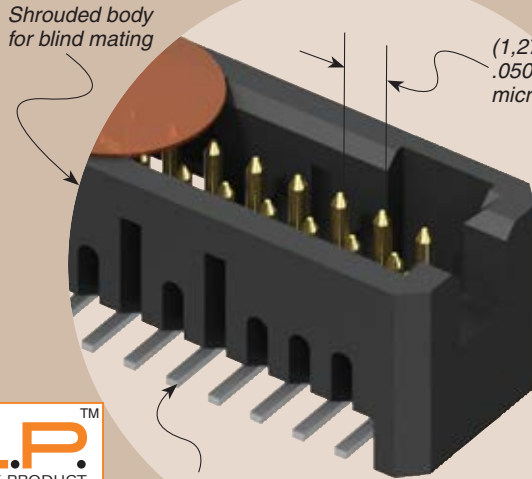


**TFM Mates with:** SFM, SFMC, SFSD

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

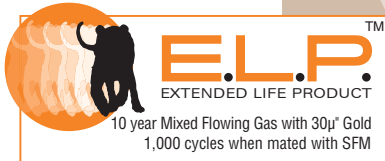
**TFM-DH Mates with:** SFM (-DH), SFMC, SFSDX (-S, -D, -SR, -DR)

Shrouded body for blind mating

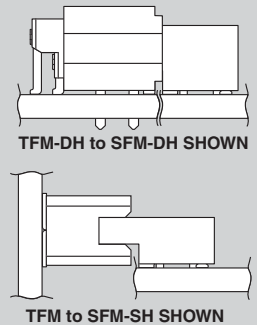


(1,27 mm x 1,27 mm) .050" x .050" micro pitch

Surface mount or Through-hole tails



## APPLICATIONS



CURRENT RATING (PER CONTACT)	
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:** (0,10 mm) .004" max (05-25) (0,15 mm) .006" max (30-50)

## MATED HEIGHT

LEAD STYLE		MATED HEIGHT*
TFM	SFM	
-02	-02	(6,35) .250
-12		(8,13) .320
-22		(9,91) .390
-32		(11,81) .465
LEAD STYLE		MATED HEIGHT*
TFM	SFM	
-01	-01	(5,97) .235
-03		(5,97) .235
-11		(7,75) .305
-13		(7,75) .305
-21		(9,53) .375
-31		(11,43) .450

\*Processing conditions will affect mated height.

<b>TYPE STRIP</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>
<b>TFM</b> = Standard		<b>04, 06, 08</b> (TFM only)	<b>Specify LEAD STYLE from chart</b>	<b>-L</b> = 15µ" (0,38 µm) Gold on post, Matte Tin on tail (Call Samtec for E.L.P. plating option)
<b>TFML</b> = Locking		<b>05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50</b> (Call Samtec for other sizes)	<b>COST-SAVING APPLICATIONS</b> See TFC Series for lower cost plating options.	<b>Note:</b> Other Gold plating options available. Contact Samtec.

LEAD STYLE (T/H)	B	C
-01	(5,59) .220	(1,97) .078
-03*	(5,59) .220	(2,77) .109
-11*	(7,37) .290	(1,97) .078
-13*	(7,37) .290	(2,77) .109
-21*	(9,14) .360	(1,97) .078
-31*	(11,05) .435	(1,97) .078

**SINGLE ROW**      **DOUBLE ROW**

**THROUGH-HOLE**      **SURFACE MOUNT**

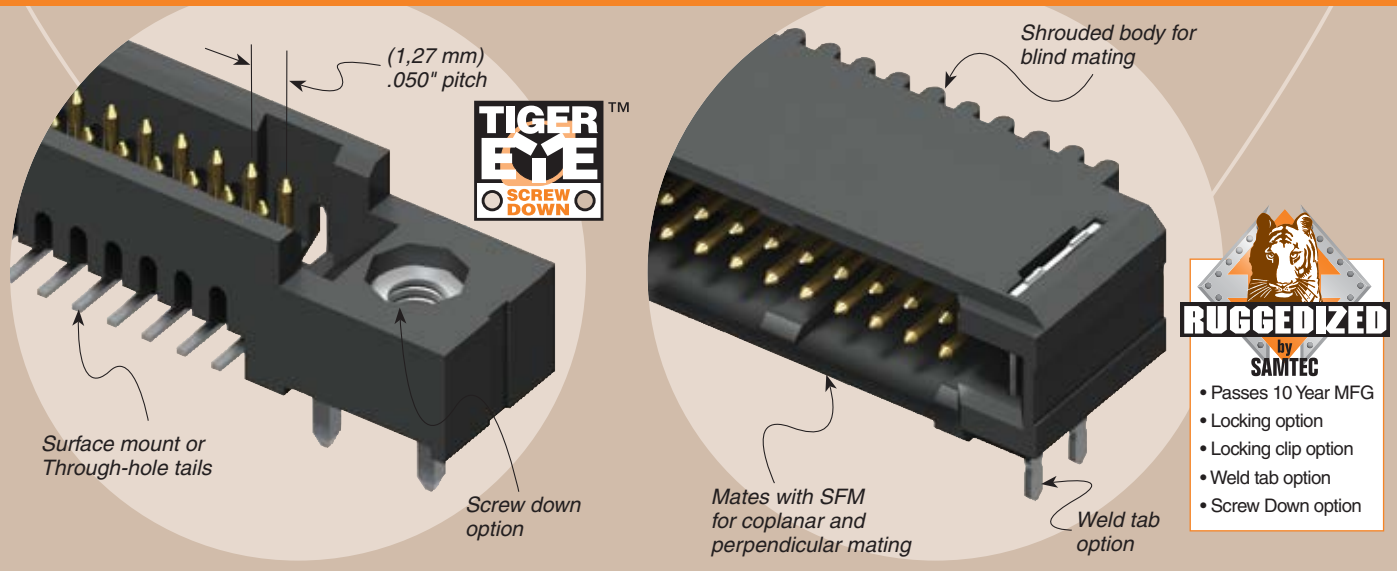
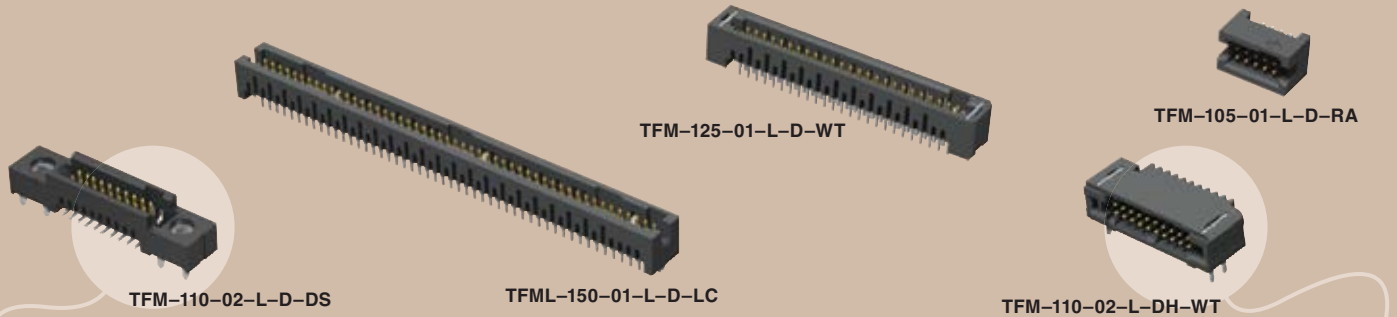
**-LC (SMT or TH)**

**-WT (-01 & -02 ONLY)**

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

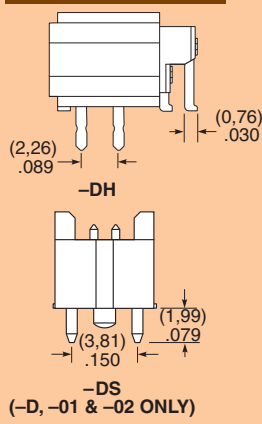
Due to technical progress, all designs, specifications and components are subject to change without notice.

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



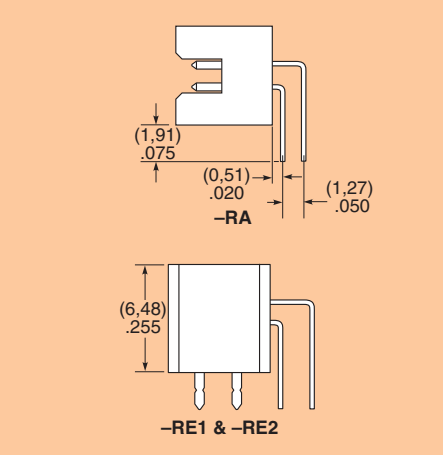
**ROW OPTION**

- S**  
= Single Row (TFM only)
- D**  
= Double Row
- DH**  
= Double Horizontal (TFM lead style -02 only) (05 thru 50 positions only) (-WT standard; -TR option only available)



**OPTION**

- Specify only **-RA**, **-RE1** or **-RE2**
- RA**  
= Right Angle (Lead style -01 only)
- RE1**  
= Right Angle Elevated for (1,58 mm) .062" PCB (Requires TFM lead style -01, -D row and -WT)
- RE2**  
= Right Angle Elevated for (2,36 mm) .093" PCB (Requires TFM lead style -01, -D row and -WT)



- Specify only **-A**, **-LC**, **-DS** or **-WT**  
Not available with **-RA**, **-RE1** and **-RE2** unless otherwise noted.
- A**  
= Alignment Pin
- LC**  
= Locking Clip (Manual Placement required)
- DS**  
= Dual Screw Down for (1,60 mm) .062" PCB (05, 07, 10, 15, 20, 25, 30, 35, 40 positions only) (TFM lead styles -01 and -02 only) (Requires -D row option) (Mates with SFM-DS option and SFSD/SFSDT -SS and -DS option only)
- WT**  
= Weld Tab (TFM lead styles -01 and -02 only) (Standard with -DH) (Mates to SFSS/SFSD -SR and -DR option only) (05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 positions only)

- SMT lead styles only  
Specify only **-K** or **-P**
- K**  
= Polyimide Film Pick & Place Pad
- P**  
= Plastic Pick & Place Pad (5 positions minimum)
- Specify **-TR** last
- TR**  
= Tape & Reel (Not available with -DS)

**APPLICATION SPECIFIC OPTION**

Solder nail option available. Call Samtec.

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