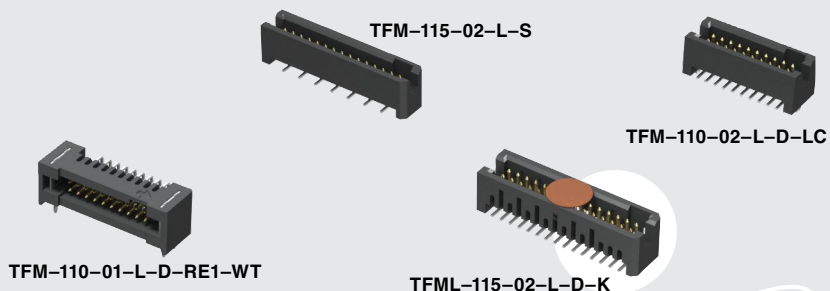


(1.27 mm) .050"



# SMT & THROUGH-HOLE HEADER

## SPECIFICATIONS

**Insulator Material:**  
Black Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Au or Sn over 50  $\mu$ " (1.27  $\mu$ m) Ni  
**Current Rating (TFM/SFM):**  
3.2 A per pin  
(2 pins powered)  
**Voltage Rating:**  
250 VAC mated with SFM  
**Operating Temp Range:**  
-55 °C to +125 °C  
**RoHS Compliant:**  
Yes

## PROCESSING

**Lead-Free Solderable:**  
Yes  
**SMT Lead Coplanarity:**  
(0.10 mm) .004" max (05-25)  
(0.15 mm) .006" max (30-50)\*  
\*(.004" stencil solution may be available)

## RECOGNITIONS

**TFM Board Mates:**

SFM, SFMC

**TFM Cable Mates:**

SFSD

**TFML Board Mates:**

SFML

**TFM-DH Board Mates:**

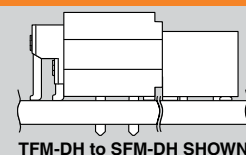
SFM (-DH), SFMC

**TFM-DH Cable Mates:**

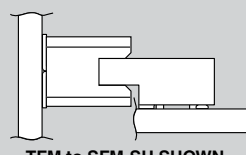
SFSDX (-S, -D, -SR, -DR)

Shrouded body  
for blind mating(1.27 mm x 1.27 mm)  
.050" x .050"  
micro pitchSurface mount or  
through-hole tails

## APPLICATIONS



TFM-DH to SFM-DH SHOWN



TFM to SFM-SH SHOWN

TYPE  
STRIP

1

NO. PINS  
PER ROW

LEAD STYLE

PLATING  
OPTIONTFM  
= StandardTFML  
= Locking  
(-01 & -02  
lead style only)03, 04, 06, 08  
(TFM -01 & -02 only)05, 07, 10, 15, 20,  
25, 30, 35, 40, 45, 50  
(Standard sizes)Specify  
LEAD STYLE  
from chart-L  
= 15  $\mu$ " (0.38  $\mu$ m)  
Gold on post,  
Matte Tin on tail  
(Call Samtec for  
E.L.P.™ plating option)

## MATED HEIGHTS

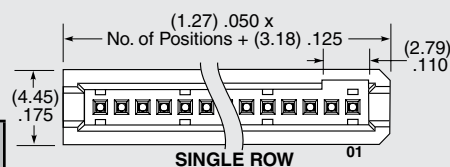
LEAD STYLE		MATED HEIGHT*
TFM	SFM	
− 02	−02	(6.35) .250
− 12		(8.13) .320
− 22		(9.91) .390
− 32		(11.81) .465
LEAD STYLE		MATED HEIGHT*
TFM	SFM	
−01	−01	(5.97) .235
−03		(5.97) .235
−11		(7.75) .305
−13		(7.75) .305
−21		(9.53) .375
−23		(9.53) .375
−31		(11.43) .450

\*Processing conditions will affect mated height.

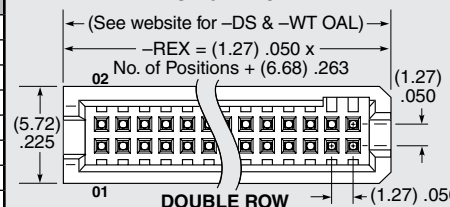
**Note:**  
Some sizes, styles and options are non-standard, non-returnable.

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
-23*	(9.14) .360	(2.77) .109
-31*	(11.05) .435	(1.97) .078

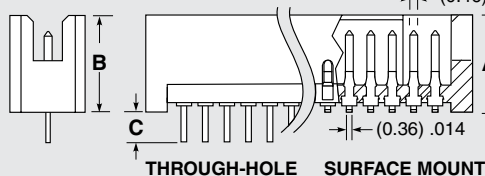
\* Not Available with 07 or -S row option



SINGLE ROW



DOUBLE ROW

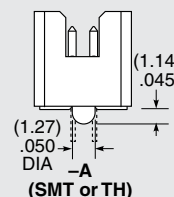


THROUGH-HOLE

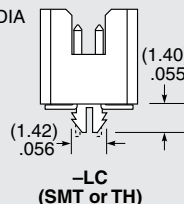
SURFACE MOUNT

LEAD STYLE (SMT)	A
-02	(5.72) .225
-12*	(7.49) .295
-22*	(9.27) .365
-32*	(11.18) .440

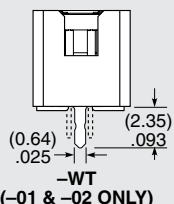
\* N/A with 07, -DH or -S row option



-A (SMT or TH)



-LC (SMT or TH)



-WT (-01 &amp; -02 ONLY)

## OTHER SOLUTIONS

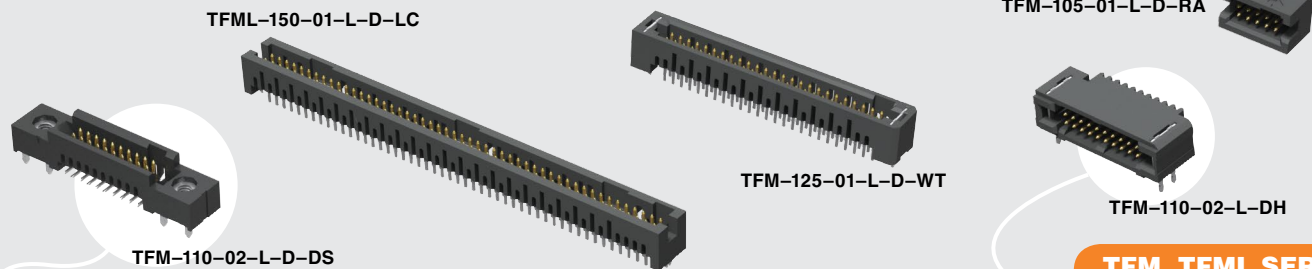
- Lower cost plating options. See TFC Series.

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

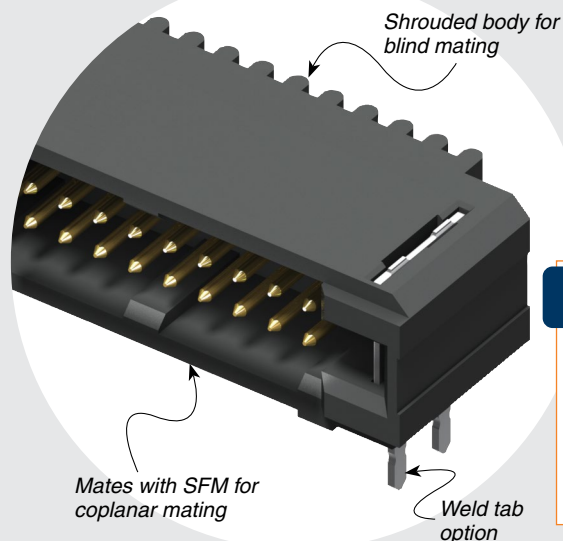
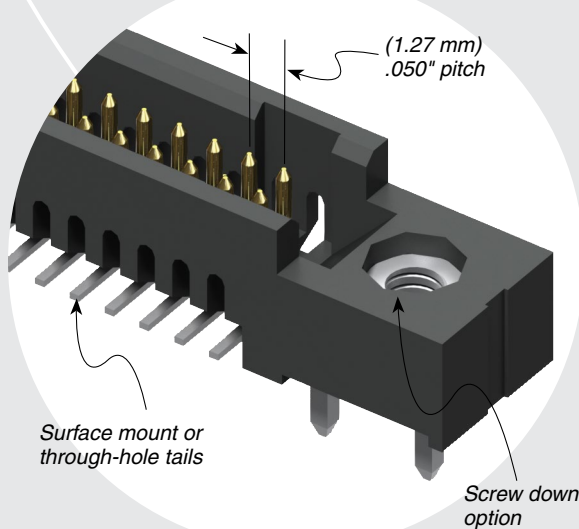
[WWW.TOBY.CO.UK](http://WWW.TOBY.CO.UK)

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Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.



## TFM, TFML SERIES



**RUGGEDIZED**  
BY SAMTEC

- Passes 10 Year MFG
- Locking option
- Locking clip option
- Weld tab option
- Screw down option

### ROW OPTION

**-S**

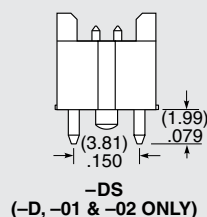
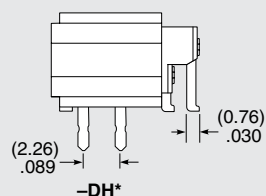
= Single Row  
(TFM only)

**-D**

= Double Row

**-DH\***

= Double Horizontal  
(TFM lead style -02 only)  
(05 thru 50 positions only)  
(-TR option only available)



### OPTION

Specify only -RA, -RE1 or -RE2

**-RA**

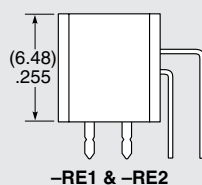
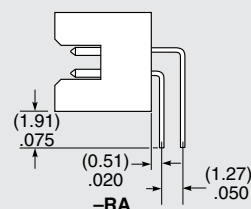
= Right-angle  
(Lead style -01 only)

**-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)  
(Not available with -A, -LC,  
-WT, -K, -P, -TR)

**-WT**

= Weld Tab  
(TFM lead styles -01 and -02 only)  
(Required callout for -RE1 & -RE2)  
(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)  
(Not available with  
5 position with -WT)

Specify -TR last

**-TR**

= Tape & Reel  
(Not available with -DS)

### ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings

#### \* Notes:

TFM -DH Mates only with SFM-D-A  
Weld tab is standard on -DH option.  
No need to specify -WT.

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