

(1.27 mm) .050"

SMT & THROUGH-HOLE HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?TFM or www.samtec.com?TFML

Insulator Material:

Black Liquid Crystal Polymer

Terminal Material:

Phosphor Bronze

Plating:
Au or Sn over 50 μ " (1.27 μ m) Ni (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; contact
IPG@samtec.com)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



MATED HEIGHTS

LEAD STYLE		MATED HEIGHT*
TFM	SFM	
-02		(6.35) .250
-12	-02	(8.13) .320
-22		(9.91) .390
-32		(11.81) .465
LEAD STYLE		MATED HEIGHT*
TFM	SFM	
-01		(5.97) .235
-03		(5.97) .235
-11		(7.75) .305
-13	-01	(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.

TFM Board Mates:
SFM, SFMC

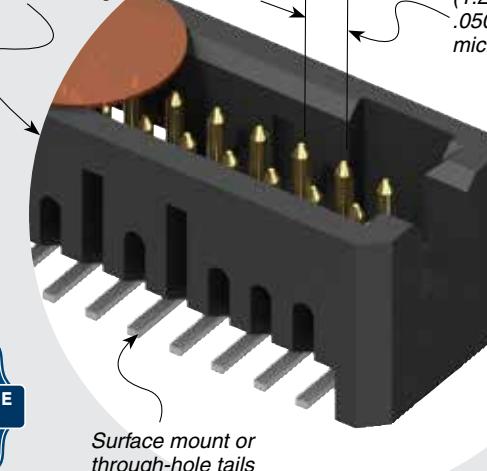
TFM Cable Mates:
SFSD

TFML Board Mates:
SFML

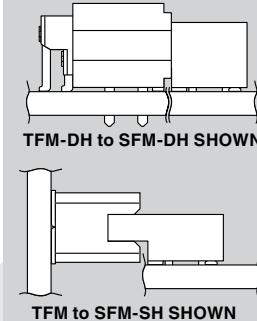
TFM-DH Board Mates:
SFM (-DH), SFMC

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 pitch



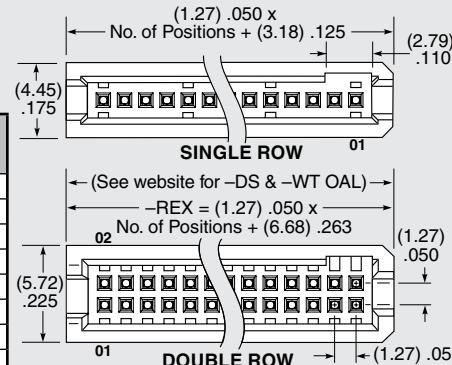
APPLICATIONS



TYPE STRIP	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION
TFM = Standard	03, 04, 06, 08 (TFM -01 & -02 only)	Specify LEAD STYLE from chart	-L = 15 μ " (0.38 μ m) Gold on post, Matte Tin on tail (Call Samtec for E.L.P.™ plating option)
TFML = Locking (-01 & -02 lead style only)	05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)		

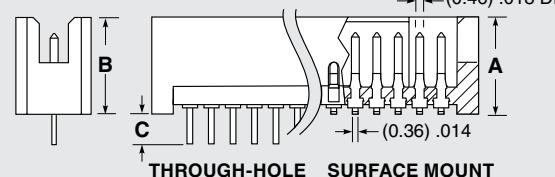
LEAD STYLE (TH)	B	C
-01	(5.59) .220	(1.97) .078
-03*	(5.59) .220	(2.77) .109
-11*	(7.37) .290	(1.97) .078
-13*	(7.37) .290	(2.77) .109
-21*	(9.14) .360	(1.97) .078
-23*	(9.14) .360	(2.77) .109
-31*	(11.05) .435	(1.97) .078

* Not Available with 07 or -S row option



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



LEAD STYLE (SMT or TH)	A	B	C
-LC (SMT or TH)	(1.40) .055	(1.42) .056	(0.36) .014
-WT (-01 & -02 ONLY)	(2.35) .093	(0.64) .025	(0.25) .005

OTHER SOLUTIONS

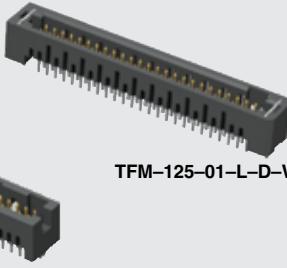
- Lower cost plating options. See TFC Series.

TFML-150-01-L-D-LC

TFM-105-01-L-D-RA



TFM-110-02-L-D-DS

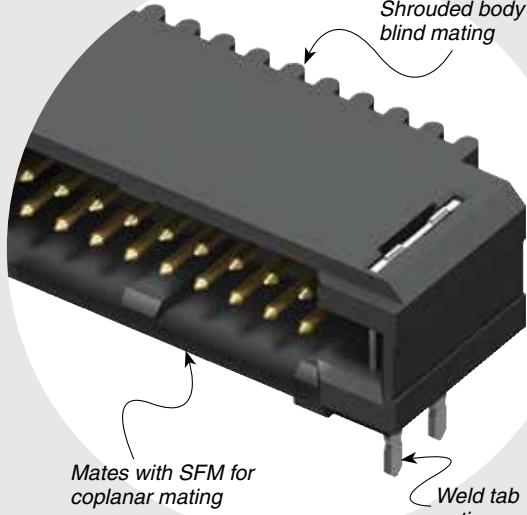
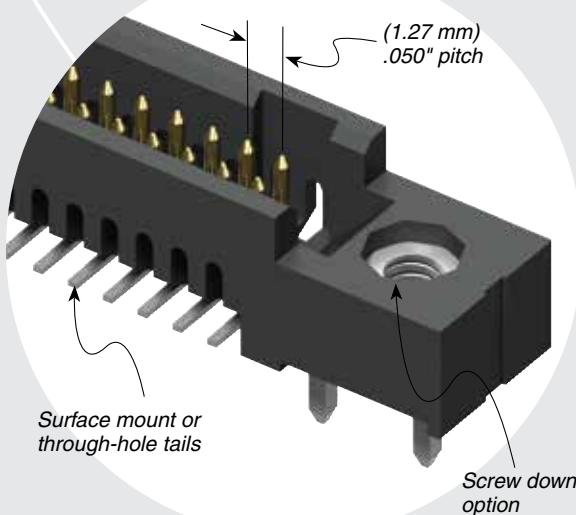


TFM-125-01-L-D-WT



TFM-110-02-L-DH

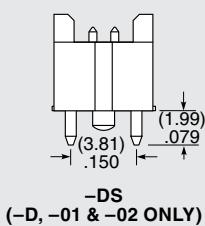
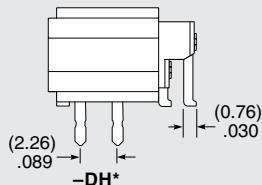
TFM, TFML SERIES

RUGGEDIZED
BY SAMTEC

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

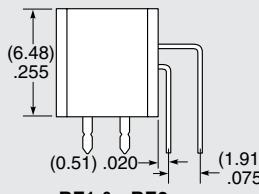
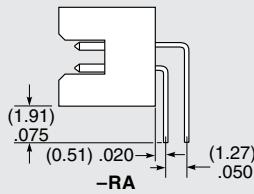
ROW OPTION

- 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)**Note:** The recommended -REX PCB board layout
is different from the -RA. Contact IPG@samtec.com
before designing your board for specifications.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)*** Note:**
Weld tab is standard on -DH option.
No need to specify -WT.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

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

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.

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[TFM-105-02-S-D](#)