



(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 50µ" (1,27 µm) Ni

Current Rating (TFM/SFM):

3.2 A per pin

(1 pin powered per row)

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)

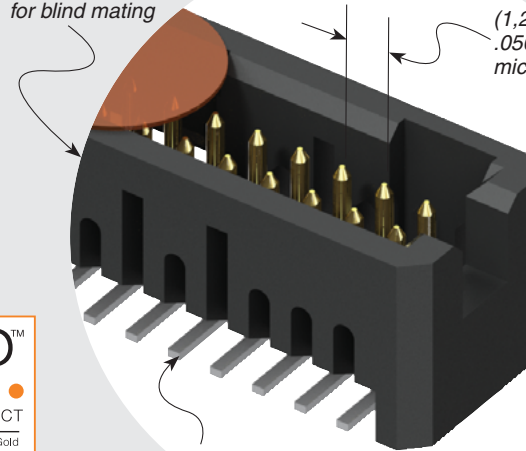
TFM Mates with:
SFM, SFMC, SFSD

TFML Mates with:
SFML

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



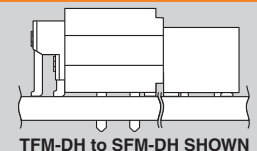
Shrouded body
for blind mating



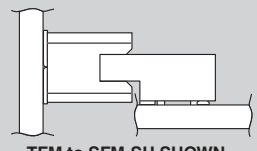
Surface mount or
Through-hole tails

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

APPLICATIONS



TFM-DH to SFM-DH SHOWN



TFM to SFM-SH SHOWN

RECOGNITIONS

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



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
−23		(9,53) .375
−31		(11,43) .450

*Processing conditions will affect mated height.

OTHER SOLUTIONS

- Lower cost plating options. See TFC Series.

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

TYPE STRIP

1

NO. PINS PER ROW

03, 04, 06, 08
(TFM -01 & -02 only)

05, 07, 10, 15, 20,
25, 30, 35, 40, 45, 50
(Standard sizes)

LEAD STYLE

Specify
LEAD STYLE
from chart

PLATING OPTION

-L
= 15µ" (0,38 µm)
Gold on post,
Matte Tin on tail
(Call Samtec for
E.L.P.™ plating option)

TFM
= Standard

TFML
= Locking
(-01 & -02
lead style only)

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

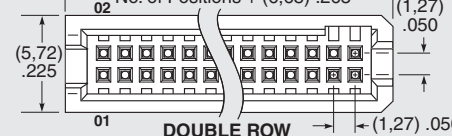
* N/A with 07 or -S row option

(1,27) .050 x
No. of Positions + (3,18) .125

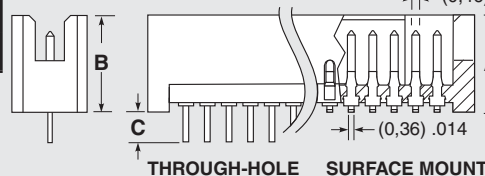


SINGLE ROW

(See website for -DS & -WT OAL)
-REX = (1,27) .050 x
No. of Positions + (6,68) .263



DOUBLE ROW

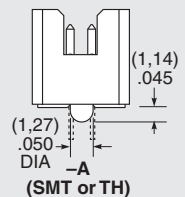


THROUGH-HOLE

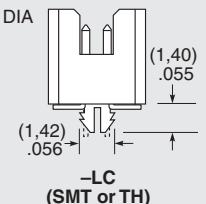
SURFACE MOUNT

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

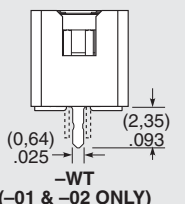
* N/A with 07, -DH or -S row option



-A
(SMT or TH)



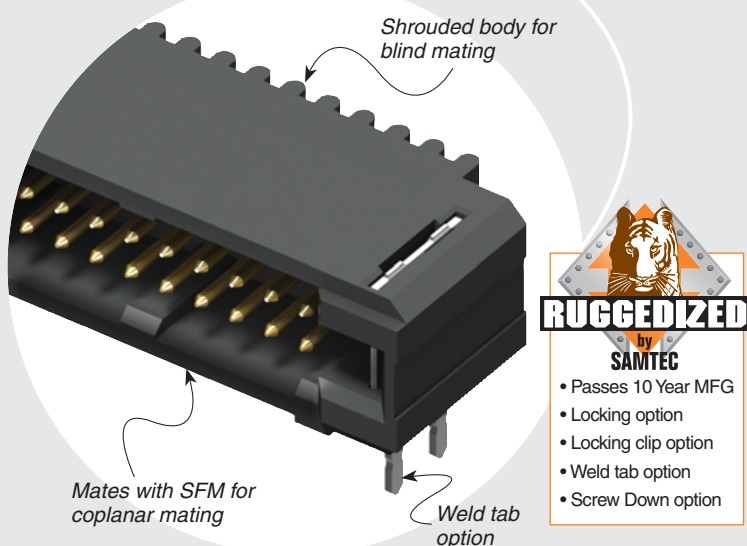
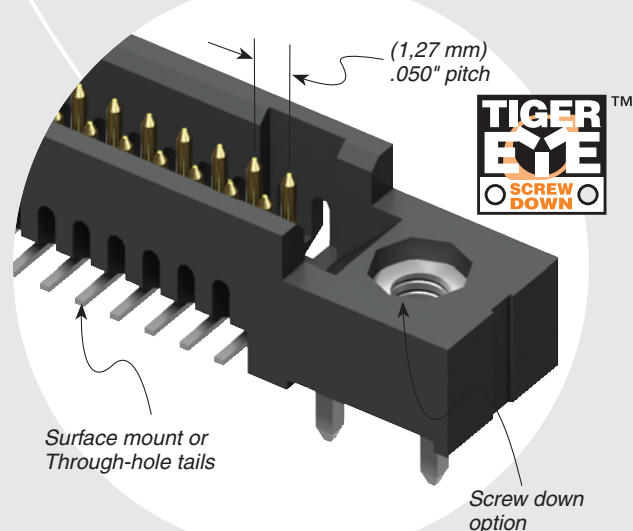
-LC
(SMT or TH)



-WT
(-01 & -02 ONLY)



TFM, TFML SERIES



ROW OPTION

-S

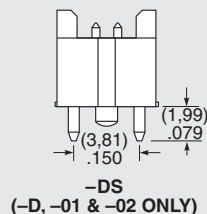
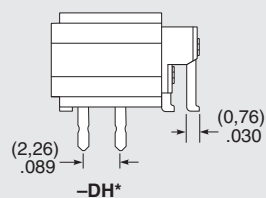
= Single Row
(TFM only)

-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

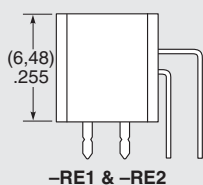
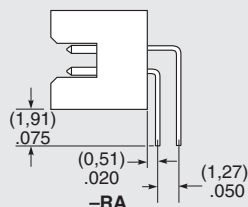
= Right Angle
(Lead style -01 only)

-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
- Contact Samtec.

* Note: Weld tab is standard on -DH option.
No need to specify -WT.