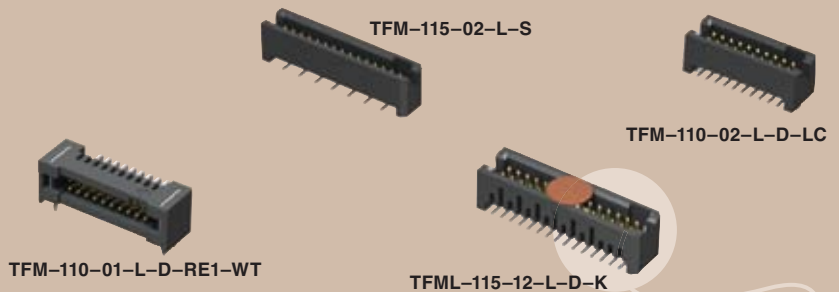


(1,27 mm) .050"

TFM, TFML SERIES



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

Voltage Rating:

350 VAC mated with SFM

Operating Temp Range:

-55°C to +125°C

RoHS Compliant:

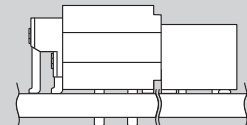
Yes



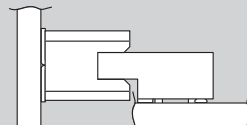
TFM Mates with:
SFM, SFMC, SFSD

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

APPLICATIONS

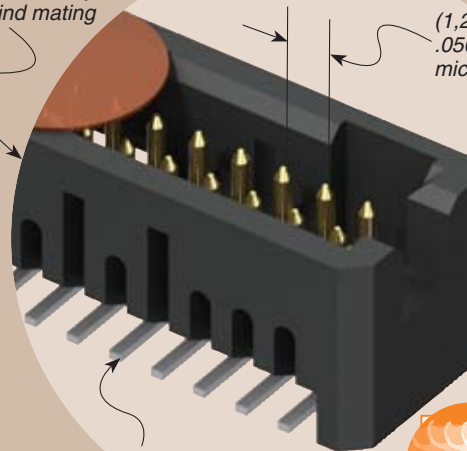


TFM-DH to SFM-DH SHOWN



TFM to SFM-SH SHOWN

Shrouded body
for blind mating



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

Surface mount or
Through-hole tails



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



E.L.P.
EXTENDED LIFE PRODUCT

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

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.

TYPE STRIP

1

NO. PINS PER ROW

04, 06, 08
(TFM only)

05, 07, 10, 15, 20,
25, 30, 35, 40, 45, 50
(Call Samtec for other 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)

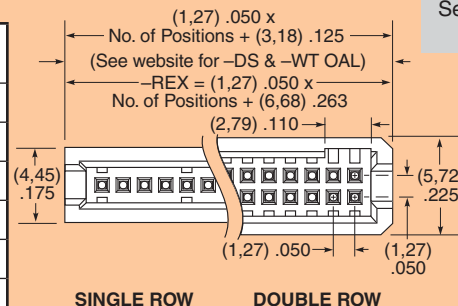
Note: Other Gold plating options available. Contact Samtec.

COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options.

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

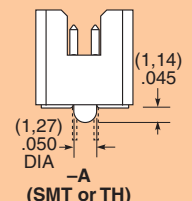
* N/A with 07 or -S row option



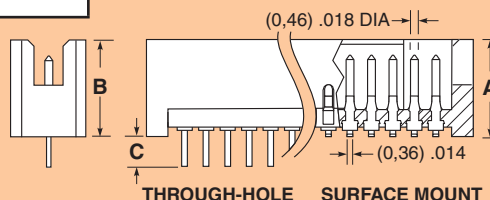
SINGLE ROW DOUBLE ROW

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

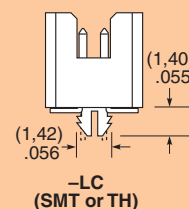
* N/A with 07, -DH or -S row option



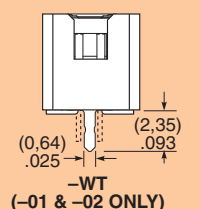
-A (SMT or TH)



THROUGH-HOLE SURFACE MOUNT



-LC (SMT or TH)



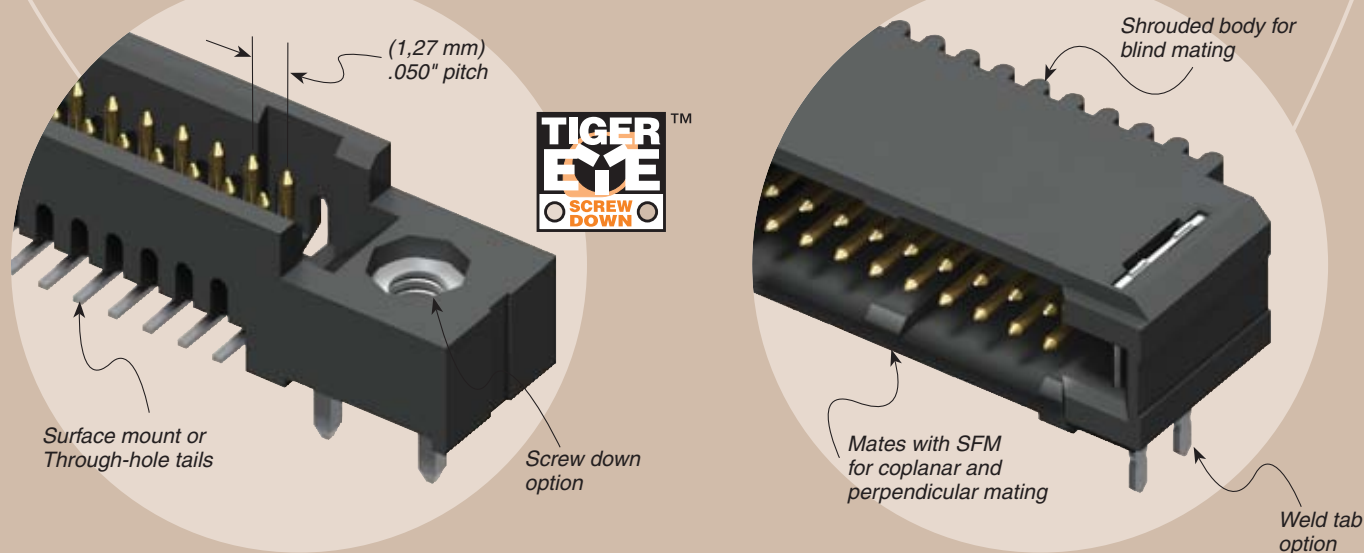
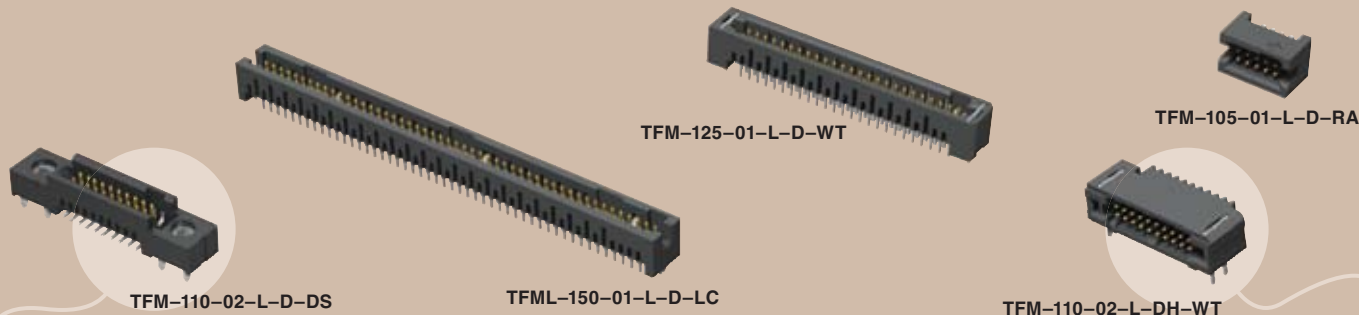
-WT (-01 & -02 ONLY)

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

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329
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SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292
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ROW OPTION

-S

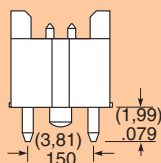
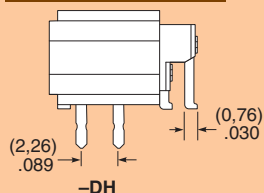
= Single Row
(TFM only)

-D

= Double Row

-DH

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



(-D, -01 & -02 ONLY)

Specify only -RA, -RE1 or -RE2

-RA

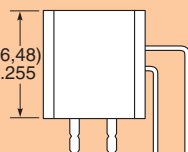
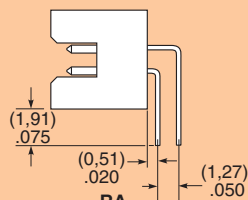
= Right Angle
(Lead style -01 only)

-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)



OPTION

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)

SMT lead styles only
Specify only -K or -P

-K

= Polyimide Film Pick & Place Pad

-P

= Plastic Pick & Place Pad

Specify -TR last

-TR

= Tape & Reel
(Not available with -DS)

APPLICATION SPECIFIC OPTION

Solder nail option available.
Call Samtec.

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