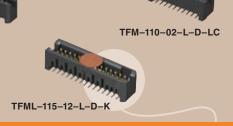


"050. (1,27 mm) TFM, TFML SERIES





Shrouded body



TFM-115-02-L-S

# **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:** 

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:

SMT Lead Coplanarity:

(0,10 mm) .004" max (05-25) (0,15 mm) .006" max (30-50)

# **MATED HEIGHT**

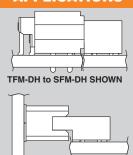
LEAD STYLE		MATED
TFM	SFM	HEIGHT*
-02	-02	(6,35) .250
-12		(8,13) .320
-22		(9,91) .390
-32		(11,81) .465
LEAD STYLE		MATED
TFM	SFM	HEIGHT*
-01	-01	(5,97) .235
-03		(5,97) .235
-11		(7,75) .305
-13		(7,75) .305
-21		(9,53) .375
-31		(11,43) .450
*Processing conditions will affect mated height.		

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



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

# APPLICATIONS



TFM to SFM-SH SHOWN

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

EXTENDED LIFE PRODUCT

**PLATING** 

**OPTION** 

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

# **TYPE STRIP**

TFM

= Standard

TFML

= Locking

В C

(5,59) .220 (1,97) .078

(5.59)(2,77)

.220 .109 (1,97) .078

(7,37) .290

(7,37) .290 .109

.360

N/A with 07 or -S row

(11,05) (1,97) .435 .078

(1,97)

В

LEAD

STYLE

(T/H)

-03

-13\*

-21\*

**NO. PINS** 

**PER ROW** 

04, 06, 08

05, 07, 10, **15**, 20, 25, 30, 35, 40, 45, 50

(Call Samtec for other sizes)

(1,27) .050 x No. of Positions + (3,18) .125 -(See website for -DS & -WT OAL) ——REX = (1,27) .050 x No. of Positions + (6,68) .263 (2,79) .110 → (5,72) (4,45)وقوووق 00006 (1,27) .050→

# SINGLE ROW **DOUBLE ROW** (0,46) .018 DIA→ **→** (0,36) .014

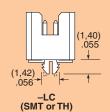
**LEAD STYLE** 

Specify LEAD STÝLE from chart

# **COST-SAVING APPLICATIONS**

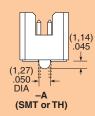
See TFC Series for lower cost plating options.

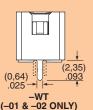
LEAD STYLE (SMT)	Α
-02	(5,72) .225
-12*	(7,49) .295
-22*	(9,27) .365
-32*	(11,18) .440
* N/A with 07, -DH or -S row option	



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

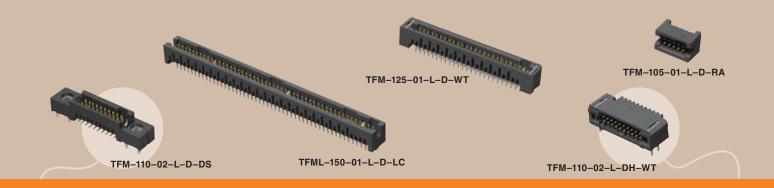
Note: Other Gold plating options available. Contact Samtec.





THROUGH-HOLE SURFACE MOUNT Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM





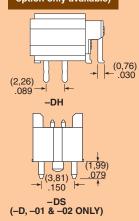
# **ROW OPTION**

-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

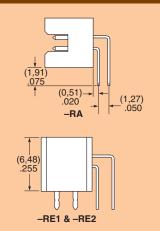
= Right Angle (Lead style -01 only)

# –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)

SMT lead styles only Specify only –K or –P **–K** 

= Polyimide Film Pick & Place Pad

= Plastic Pick & Place Pad

Specify -TR last

-TR
= Tape & Reel
(Not available with -DS)

# APPLICATION **SPECIFIC OPTION**

Solder nail option available. Call Samtec.

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

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