

(1,27mm) .050"

TFM, TFML SERIES

TFM-115-01-L-S

TFM-110-01-L-D-RE1-WT

TFM-120-11-L-D-A

TFML-125-01-L-D

TFM-105-01-L-D-LC

# THROUGH-HOLE HIGH REL HEADER

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?TFM](http://www.samtec.com?TFM) or [www.samtec.com?TFML](http://www.samtec.com?TFML)

### Insulator Material:

Black Liquid  
Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over 50µ" (1,27µm) Ni

### Voltage Rating:

350 VAC mated with SFM

### Operating Temp Range:

-55°C to +125°C

### RoHS Compliant:

Yes

### Lead-Free Solderable:

Yes



TFM Mates with:  
SFM, SFMC, SFSD

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

## STACK HEIGHT

| LEAD STYLE |     | MATED HEIGHT |
|------------|-----|--------------|
| TFM        | SFM |              |
| -01        |     | (5,97) .235  |
| -03        |     | (5,97) .235  |
| -11        | -01 | (7,75) .305  |
| -13        |     | (7,75) .305  |
| -21        |     | (9,53) .375  |
| -31        |     | (11,43) .450 |

Shrouded body for  
blind mating

Locking feature  
increases unmating  
force (TFML)

Through-hole

(1,27mm)  
.050" pitch



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

Alignment pin or locking  
clip options available

## COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options.



| CURRENT RATING            |         |
|---------------------------|---------|
| AMBIENT TEMP              | TFM/SFM |
| 20°C                      | 5A      |
| 40°C                      | 4.5A    |
| 60°C                      | 3.9A    |
| 95°C                      | 2.6A    |
| 6 POSITIONS (2x3) POWERED |         |

| TYPE STRIP                              | NO. PINS PER ROW                                                                     | LEAD STYLE                    | PLATING OPTION                                           | ROW OPTION                    | OPTION                                                                                                                                                  |
|-----------------------------------------|--------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| TFM<br>= Standard                       | 05, 07,<br>10, 15, 20,<br>25, 30, 35,<br>40, 45, 50<br>(Call Samtec for other sizes) | Specify LEAD STYLE from chart | -L<br>= 10µ" (0,25µm)<br>Gold on post, Matte Tin on tail | -S<br>= Single Row (TFM only) | -RA<br>= Right Angle (Style -01 only)                                                                                                                   |
| TFML<br>= Locking (Lead style -01 only) |                                                                                      |                               | -S<br>= 30µ" (0,76µm)<br>Gold on post, Matte Tin on tail | -D<br>= Double Row            | -RE1<br>= Right Angle Elevated for (1,58mm) .062" PCB (Requires -WT)<br>(TFM lead style -01, -D and 5, 10, 15, 20, 25, 30 positions only)               |
|                                         |                                                                                      |                               |                                                          |                               | -RE2<br>= Right Angle Elevated for (2,36mm) .093" PCB (Requires -WT)<br>(TFM lead style -01, -D and 5, 10, 15, 20, 25, 30 positions only)               |
|                                         |                                                                                      |                               |                                                          |                               | -A<br>= Alignment Pin (N/A with -RA or -LC)                                                                                                             |
|                                         |                                                                                      |                               |                                                          |                               | -LC<br>= Locking Clip (Manual placement required) (N/A with -RA or -A)                                                                                  |
|                                         |                                                                                      |                               |                                                          |                               | -WT<br>= Weld Tabs lead style -01 and 05, 10, 15, 20, 25, 30 positions only. (N/A with -A, -LC, -RA or TFML Series) Mates to SFSS/SFSD -SR & -DR option |

Diagram showing dimensions for SINGLE ROW and DOUBLE ROW configurations. Dimensions include pitch (1,27), row spacing (1,27), and various lead dimensions (e.g., (4,45) .175, (5,72) .225, (6,48) .255, (1,91) .075, (0,51) .020, (5,72) .225, (1,27) .050, (1,42) .056, (1,14) .045, (0,36) .014, (0,46) .018 DIA, (0,64) .025, (2,35) .093).

| LEAD STYLE | A            | B           |
|------------|--------------|-------------|
| -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

Note: Other Gold plating options available. Contact Samtec.

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.

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