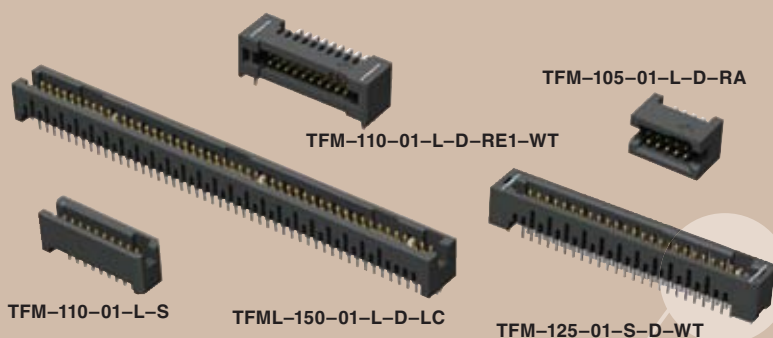


(1,27mm) .050"

TFM, TFML SERIES



# 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

(1,27mm)  
.050" pitch

Locking feature increases unmating force (TFML)

Through-hole

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 = Standard	05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Call Samtec for other sizes)	Specify LEAD STYLE from chart	-L = 10µ" (0,25µm) Gold on post, Matte Tin on tail	-S = Single Row (TFM only)	-RA = Right Angle (Style -01 only)
TFML = Locking (Lead style -01 only)			-S = 30µ" (0,76µm) Gold on post, Matte Tin on tail	-D = Double Row	-RE1 = Right Angle Elevated for (1,58mm) .062" PCB (Requires -WT) (TFM lead style -01, -D and 5, 10, 15, 20, 25, 30 positions only)
					-RE2 = Right Angle Elevated for (2,36mm) .093" PCB (Requires -WT) (TFM lead style -01, -D and 5, 10, 15, 20, 25, 30 positions only)
					-A = Alignment Pin (N/A with -RA or -LC)
					-LC = Locking Clip (Manual placement required) (N/A with -RA or -A)
					-WT = Weld Tabs lead style -01 and 05, 05 thru 50 positions only. (N/A with -A, -LC, -RA or TFML Series) Mates to SFSS/SFSD -SR & -DR option

**SINGLE ROW**  
 (1,27) .050 x No. of Positions + (3,18) .125  
 -RE = (1,27) .050 x No. of Positions + (6,68) .263

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

**RA**  
 (1,91) .075  
 (0,51) .020  
 (1,27) .050

**RE1 & RE2**  
 (5,72) .225  
 (1,40) .055

**A**  
 (1,27) .050 DIA  
 (1,14) .045

**LC**  
 (1,42) .056

**WT**  
 (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.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)