

(1,27mm) .050"

TFM, TFML SERIES

SMT HIGH RELIABILITY HEADER

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?TFM or www.samtec.com?TFML

Insulator Material:

Black Liquid

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

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

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10mm) .004" max (05-25)

(0,15mm) .006" max (30-50)

APPLICATION SPECIFIC OPTION

Solder nail option for (2,36mm) .093" thick board available. Call Samtec.

TFM

Mates with: SFM, SFMC, SFSD

TFML

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

MATED HEIGHT

LEAD STYLE	SFM	MATED HEIGHT*
-02		(6,35) .250
-12	-02	(8,13) .320
-22		(9,91) .390
-32		(11,81) .465

*Processing conditions will affect mated height.

1,27mm SFM/TFM	Rated @ 3dB Insertion Loss
6,35mm Stack Height	
Single-Ended Signaling	6.0 GHz / 12 Gbps
Differential Pair Signaling	7.0 GHz / 14 Gbps

Performance data for other stack heights and complete test data available at www.samtec.com?TFM or contact sig@samtec.com

COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options.

Shrouded body for blind mating

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

- Passes 10 Year MFG
- Locking option
- Locking clip option
- Weld tab option
- Solder nail option for up to 25Gs

Choice of four body heights

Surface Mount

ELP
EXTENDED LIFE PRODUCT

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

TYPE STRIP	1	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)	-A = Alignment Pin (N/A with -LC, -SN, -WT, -DH)	-LC = Locking Clip (N/A with -A, -SN, -WT, -DH) (Manual placement required)
TFML = Locking (Lead style -02 only)			-S = 30µ" (0,76µm) Gold on post, Matte Tin on tail	-D = Double Row	-SN = Solder Nail (N/A with -A, -LC, -WT, -DH) (-02 lead style & -D row only)	-WT = Weld Tab (-02 & 05 thru 50 pos. only) (N/A with -A, -LC, -SN, TFML) (Standard with -DH)
						-K = Polyimide Film Pick & Place Pad (N/A with -P, -DH)
						-P = Plastic Pick & Place Pad (N/A with -K, -DH)
						-TR = Tape & Reel (Specify Last)

Diagram showing dimensions for SINGLE ROW and DOUBLE ROW headers. Dimensions include (1,27) .050 x, (3,18) .125, (2,79) .110, (4,45) .175, (5,72) .225, (1,27) .050, (1,27) .050, (0,46) .018 DIA, (0,36) .014, (0,66) .026 DIA, (0,64) .025, (2,35) .093, (1,42) .056, (1,14) .045, (2,26) .089, (0,76) .030, (1,40) .055.

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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