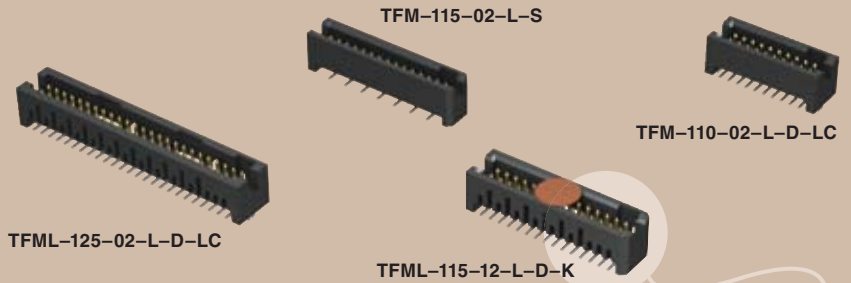




(1,27mm) .050"

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 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



| 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.

Note: Other Gold plating options available. Contact Samtec.

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

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 |

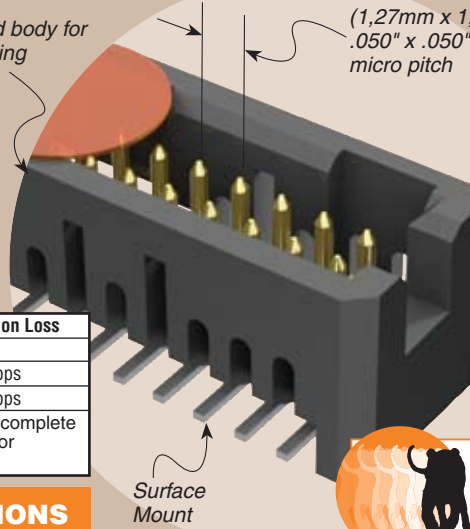
Performance data for other stack heights and complete test data available at www.samtec.com?TFM or contact sig@samtec.com

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



Surface Mount



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

Choice of four body heights



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 | | | -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 lead style 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) |

LEAD STYLE A

| LEAD STYLE | 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

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

WWW.SAMTEC.COM