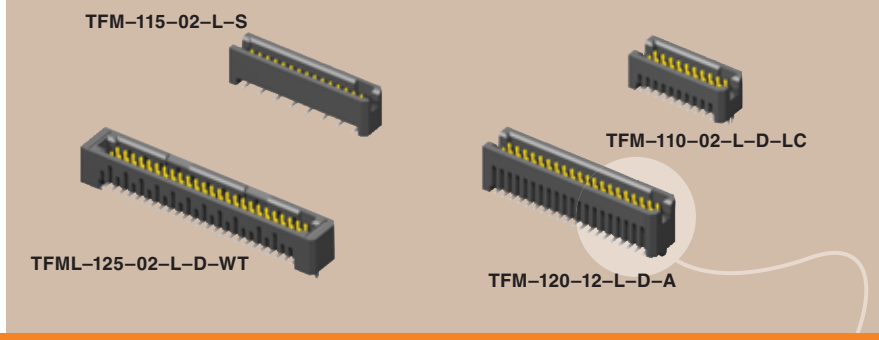
samtec

TIGER EYE SYSTEM™

**(1,27mm) .050"**

**TFM, TFML SERIES**




# SMT HIGH RELIABLE 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:

**Max Processing Temp:**
230°C for 60 seconds, or
260°C for 20 seconds 3x
**Lead-Free Solderable:**
Yes
**SMT Lead Coplanarity:**
(0,10mm) .004" max (05-25)
(0,15mm) .006" max (30-50)

## APPLICATION SPECIFIC OPTION

TFML solder nail option 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

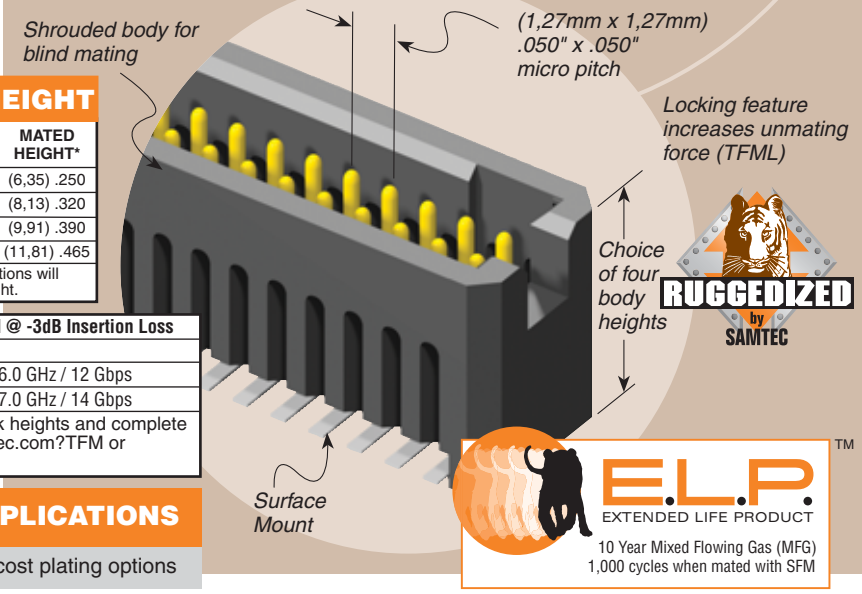
**TFML**
**Mates with:**
SFML

## MATED HEIGHT

| LEAD STYLE | | MATED HEIGHT* |
|---|---|---|
| TFM | SFM | |
| –02 | –02 | (6,35) .250 |
| –12 | | (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 | |




E.L.P.™ EXTENDED LIFE PRODUCT
10 Year Mixed Flowing Gas (MFG)
1,000 cycles when mated with SFM

## COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options

| TYPE STRIP | – | 1 | NO. PINS PER ROW | – | LEAD STYLE | – | PLATING OPTION | – | ROW OPTION | – | OPTION |
|---|---|---|---|---|---|---|---|---|---|---|---|

**TFM**
= Standard

**TFML**
= Locking (Lead style –02 only)

**05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50**
(Call Samtec for other sizes)

**Specify LEAD STYLE from chart**

| LEAD STYLE | A |
|---|---|
| –02 | (5,72) .225 |
| –12* | (7,49) .295 |
| –22* | (9,27) .365 |
| –32* | (11,18).440 |

* N/A WITH 07 OR -S

**–L**
= 10µ" (0,25µm) Gold on post, Matte Tin on tail

**–S**
= 30µ" (0,76µm) Gold on post, Matte Tin on tail

**–S**
= Single Row (TFM only)

**–D**
= Double Row

**–A**
= Alignment Pin (N/A with –LC)

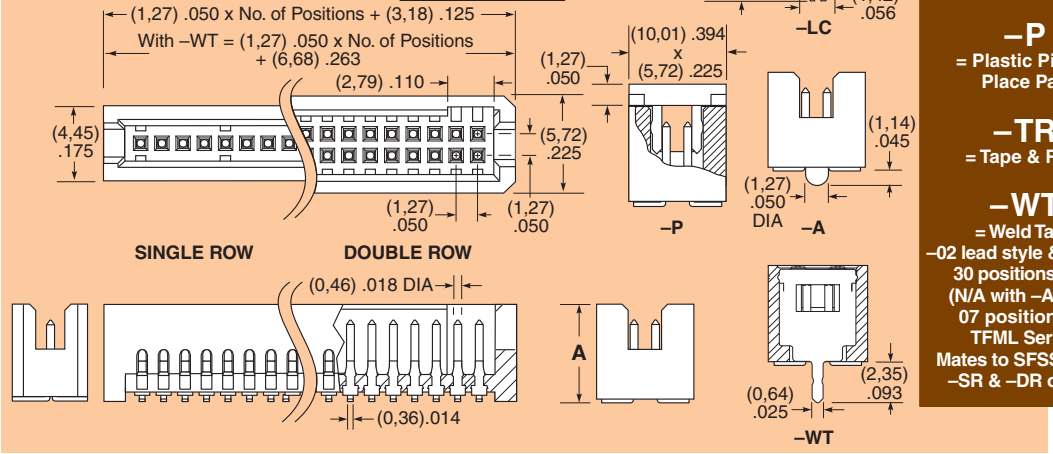
**–LC**
= Locking Clip (N/A with -A)

**–K**
= (5,50mm) .216" DIA Polyimide Film Pick & Place Pad

**–P**
= Plastic Pick & Place Pad

**–TR**
= Tape & Reel

**–WT**
= Weld Tabs
–02 lead style & 05 thru 30 positions only (N/A with –A, –LC, 07 positions or TFML Series)
Mates to SFSS/SFSD –SR & –DR option




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