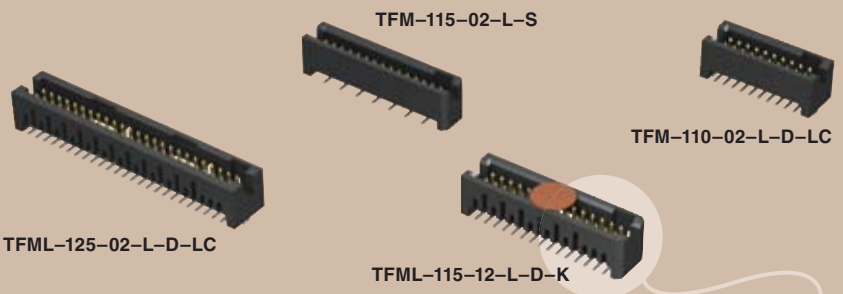
samtec

TIGER EYE SYSTEM™

(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

FILE NO. E111594

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

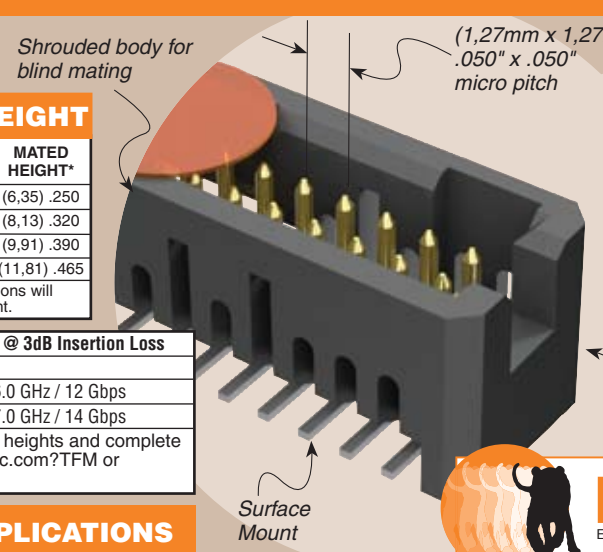
LEAD STYLE		MATED HEIGHT*
TFM	SFM	
–02	–02	(6,35) .250
–12		(8,13) .320
–22		(9,91) .390
–32		(11,81) .465

*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	

COST-SAVING APPLICATIONS

See TFC Series for lower cost plating options.



RUGGEDIZED by SAMTEC

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

E.L.P.™ 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

TFML
= Locking

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, -DH or -S row option

–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

–DH
= Double Horizontal (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)

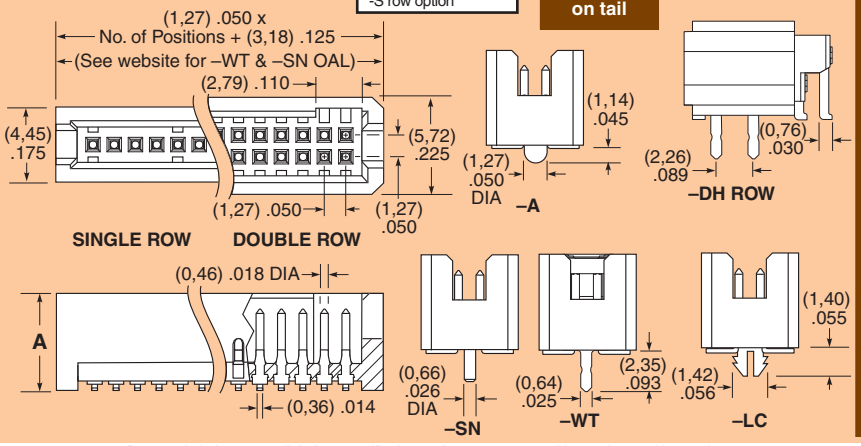
–SN
= Solder Nail
(N/A with –A, –LC, –WT, –DH)
(–02 lead style & –D row only)

–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)



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.

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC SILICON VALLEY • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766
SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683