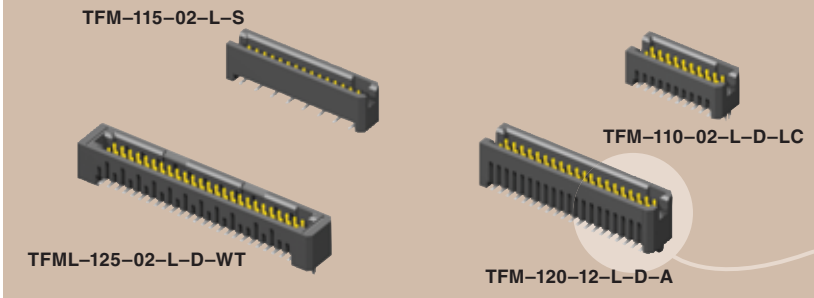
samtec

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

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:

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

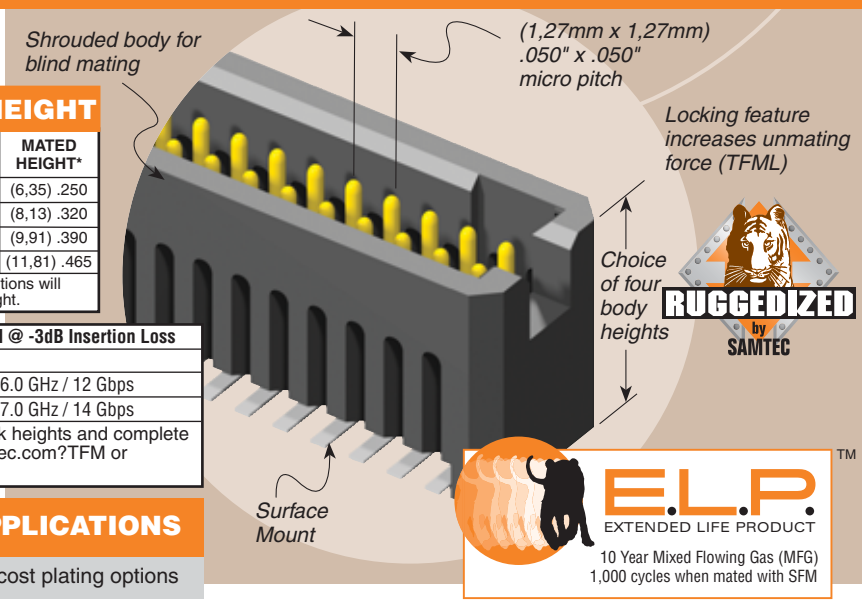
*Processing conditions will affect mated height.

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



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)

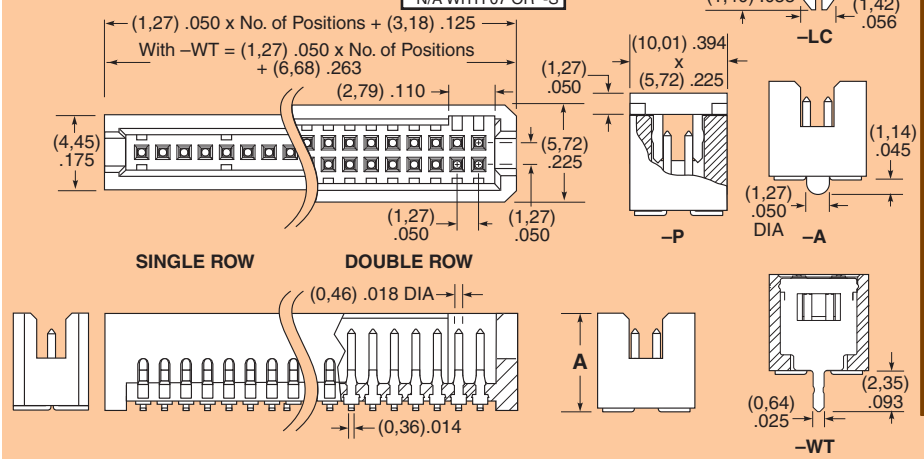
–LC
= Locking Clip (N/A with -A)

–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.