

**RUGGED TIGER EYE™ SYSTEMS** 

(1.27 mm) .050" PITCH













- Screw down, locking clip, friction latching and weld tab ruggedizing options
- · Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Discrete wire assemblies available in single or double row, 28 and 30 AWG PVC or Teflon® wire; contact asp@samtec.com for custom solutions
- Cable components (ISDF/CC03) and tooling available

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Locking for increased unmating force (SFML/TFML)

# **KEY SPECIFICATIONS (TFM/SFM)**

PITCH	STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	MAX CYCLES
1.27 mm	6 to 12 mm	Black LCP	BeCu (SFM) Phosphor Bronze (TFM)	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	3.2 A per pin (2 pins powered)	250 VAC	10,000 with 30 µ" (0.76 µm) Au (Call Samtec for E.L.P.™ plating option)







# (1.27 mm) .050" • SMT/THROUGH-HOLE HEADER

**SERIES** 

NO. PINS PER ROW

STYLE

PLATING OPTION

ROW OPTION

**OPTIONS** 

**TFM** = Standard

**TFML** = Locking (-01 & -02 lead style only)

03, 04, **06, 08** (TFM -01 & –02 only)

05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes) Specify LEAD **STYLE** from

chart

-L= 15 µ" (0.38 µm) Gold on post, Matte Tin on tail (Call Samtec for E.L.P.™ plating option)

-S Single Row (TFM only)

-D = Double Row

-DH\* = Double Horizontal (TFM lead style -02 only) (05 thru 50 positions only) (-TR or -FR option only

available)

Specify only –RA, –RE1 or –RE2

-RA = Right-angle (Lead style -01 only)

-RE1

= Right-angle Elevated for (1.60 mm) .062" PCB (Requires TFM lead style –01, -D row and –WT)

-RE2

= Right-angle Elevated for (2.36 mm) .093" PCB (Requires TFM lead style –01, –D row and –WT)

Specify only –A, –LC, –DS or –WT Not available with –RA, –RE1 and –RE2 unless otherwise noted.

-A

= Alignment Pin

-LC = Locking Clip (Manual Placement

for (1.60 mm) .062" PCB

-01 and -02 only) (Requires -D

row option) (Mate's with SFM-DS option and

SFSD/SFSDT -SS and –DS option only) (Not available with – LC, –WT, –K, –P, –XR) **-WT** = Weld Tab

(TFM lead styles –01 and –02 only) (Required callout for –RE1 & –RE2)

(Mates to SFSS/SFSD -SR and -DR

option only)

(05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 positions only)

required) 5 position with -WT) Specify –TR or -FR last (Not available with –DS) -DS = Dual Screw Down

-TR = Tape & Reel .002 FCB (05, 07, 10, 15, 20, 25, 30, 35, 40 positions only) (TFM lead styles

-FR

SMT lead styles only Specify only –K or –P

**–K** = Polyimide Film Pick & Place Pad

-P

= Plastic Pick

& Place Pad (5 positions min.)

(Not available with

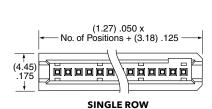
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

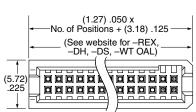
**TFM Board Mates:** 

Cable Mates:

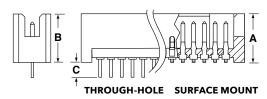
**TFML Board Mates:** 







### **DOUBLE ROW**



MATED HEIGHTS*						
LEAD ST						
TFM	SFM	MATED HEIGHT*				
-02		(6.35) .250				
-12	00	(8.13) .320				
-22	-02	(9.91) .390				
-32		(11.81).465				
LEAD ST	MATED HEIGHT*					
TFM	SFM	MAIED REIGHT"				
-01		(5.97) .235				
-03		(5.97) .235				
-11	-01	(7.75) .305				
-13		(7.75) .305				
-21		(9.53) .375				
-23		(9.53).375				
-31		(11.43).450				

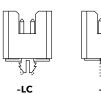
<sup>\*</sup>Processing conditions will affect mated height.

LEAD STYLE (SMT)	Α
-02	(5.72) .225
-12*	(7.49) .295
-22*	(9.27) .365
-32*	(11.18) .440

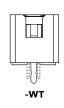
* N/A	with	07,	-DH	or	-S rov	v o	ption	

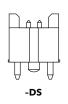
LEAD STYLE (T/H)	В	С			
-01	(5.59) .220	(1.97) .078			
-03*	(5.59) .220	(2.77) .109			
-11*	(7.37) .290	(1.97) .078			
-13*	(7.37) .290	(2.77) .109			
-21*	(9.14) .360	(1.97) .078			
-23*	(9.14) .360	(2.77) .109			
-31*	(11.05) .435	(1.97) .078			
* Not Available with 07 or -S row option					

Not Available with 07 or -S row option















Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: samtec.com?TFM & samtec.com?TFML

# **Mouser Electronics**

**Authorized Distributor** 

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

# Samtec:

TFM-110-01-L-D-RE1-WT