

**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™ Fluoropolymer (See pages 238-239). Contact asp@samtec.com for custom solutions.
- Cable components (ISDF/CC03) and tooling available: samtec.com/tooling
- Severe Environment Testing qualified (SFM/TFM); aligns with MIL-DTL-55302.
   Visit samtec.com/set

\*Teflon  $^{\rm m}$  is a trademark of The Chemours Company FC, LLC used under license by Samtec.







Locking for increased unmating force (SFML/TFML)

## **KEY SPECIFICATIONS**

SERIES	STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	VOLTAGE RATING	MAX. CYCLES	LEAD-FREE SOLDERABLE
SFM/TFM	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	3.7 A per pin (2 pins powered)	250 VAC/ 354 VDC	10,000 with 30 µ" (0.76 µm) Au	Yes
SFC/TFC	6 to 12 mm	Black LCP	Phosphor Bronze	Au or Sn over 50 μ" (1.27 μm) Ni	-55 °C to +125 °C	2.9 A per pin (2 pins powered)	275 VAC/ 389 VDC	(Call Samtec for E.L.P.™ plating option)	Yes



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

**SERIES** 

**TFM** 

= Standard

**TFML** 

= Locking (-01 & -02

lead style

only)

**TFM** 

**TFML** 

NO. PINS PER ROW

03, 04,

**06, 08** (TFM -01 &

–02 only)

05, 07,

10, 15, 20,

25, 30, 35,

40, 45, 50

(Standard sizes)

STYLE

Specify LEAD

**STYLE** 

from

chart

PLATING OPTION

**ROW 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.

**OPTIONS** 

-A = Alignment Pin

-LC = Locking Clip (Manual Placement required)

-DS = Dual Screw Down for (1.60 mm) .062" PCB .002 FCB (05, 07, 10, 15, 20, 25, 30, 35, 40 positions only) (TFM lead styles -01 and -02 only) (Requires -D row option)

(Mates 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)

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 5 position with -WT)

Specify –TR or -FR last (Not available with –DS)

-TR = Tape & Reel

-FR = Full Reel Tape & Reel (must order max.

quantity per reel; contact Samtec for quantity breaks)

### -F = Gold flash on contact, Matte Tin on tail

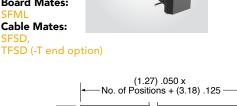
-L = 15 µ"

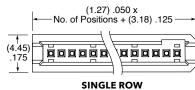
(0.38 µm) Gold on post, Matte Tin on tail (Call Samtec for E.L.P.™ plating option)

**Board Mates:** Cable Mates:

**Board Mates:** 

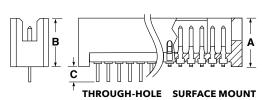
Cable Mates:





(4.57) 575
(1.27) .050 x ←—No. of Positions + (3.18) .125——→
(See website for –REX, –DH, –DS, –WT OAL)
(5.72)
<u> </u>

### **DOUBLE ROW**



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

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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 roy	vontion

D STYLE (SMT)	A	LEAD STYLE	В	С
-02	(5.72) .225	(T/H)		·
-12*	(7.49) .295	-01	(5.59) .220	(1.97) .078
-22*	(9.27) .365	-03*	(5.59) .220	(2.77) .109
-32*	(11.18) .440	-11*	(7.37) .290	(1.97) .078
with 07, -DH or -S row option		-13*	(7.37) .290	(2.77) .109
		-21*	(9.14) .360	(1.97) .078
		-23*	(9.14) .360	(2.77) .109
		21*	(44.05) 405	(4.07) 070

<sup>(11.05) .435 (1.97) .078</sup> \* Not Available with 07 or -S row option



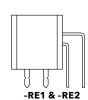












### Notes:

Severe Environment Testing qualified (TFM); aligns with MIL-DTL-55302. Visit samtec.com/set

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

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