

RUGGED TIGER EYE™ SYSTEMS

(1.27 mm) .050" PITCH

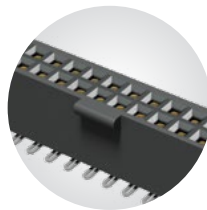
MAX
3.2
A m p s

8
G b p s



FEATURES & BENEFITS

- High-Reliability Rugged Tiger Eye™ contact system
- Surface mount & through-hole tails
- Vertical & horizontal orientation
- Up to 8 Gbps of performance
- SET qualified product
- Extended Life Product™ (E.L.P.™) for high mating cycles to 2,500
- Discrete Wire assemblies available. Contact autosalesgroup@samtec.com for other solutions.



Locking for increased unmating force (A-SFML/A-TFML)

**TIGER™
EYE**
CONTACT



- High-Reliability
- High Mating Cycles
- Multi-finger Contact

KEY SPECIFICATIONS (A-TFM/A-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 (A-SFM) Phosphor Bronze (A-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)

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



SMT & THROUGH-HOLE TIGER EYE™ HEADER



(1.27 mm) .050" • A-TFM/A-TFML SERIES

SERIES	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTIONS
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A-TFM
= Standard

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

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

05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50
(Standard sizes)

Specify **LEAD STYLE** from chart

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

-S
= Single Row
(A-TFM only)
-D
= Double Row

Specify only **-RA**

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

Specify only **-A**, or **-WT**
Not available with **-RA**, unless otherwise noted.

-A
= Alignment Pin

-WT
= Weld Tab
(A-TFM lead styles -01 and -02 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

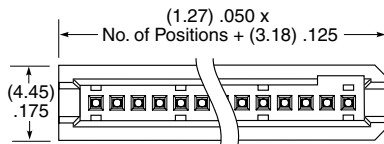
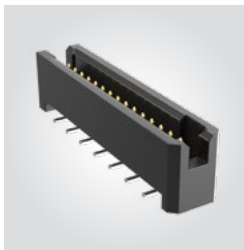
-P
= Plastic Pick & Place Pad (5 positions min.)
(Not available with -WT)

Specify **-TR** last
-TR
= Tape & Reel

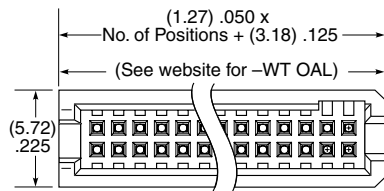


A-TFM
Board Mates:
A-SFM, A-SFMC

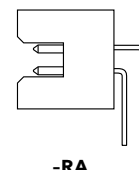
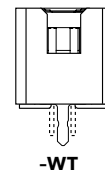
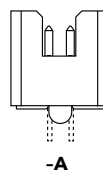
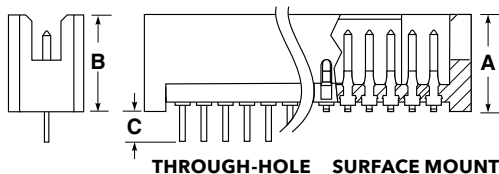
A-TFML
Board Mates:
A-SFML



SINGLE ROW



DOUBLE ROW



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

*Processing conditions will affect mated height.

LEAD STYLE (SMT)	A	LEAD STYLE (T/H)	B	C
-02	(5.72) .225	-01	(5.59) .220	(1.97) .078
-12*	(7.49) .295	-03*	(5.59) .220	(2.77) .109
-22*	(9.27) .365	-11*	(7.37) .290	(1.97) .078
-32*	(11.18) .440	-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

* N/A with 07, -S row option

* Not Available with 07 or -S row option

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

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