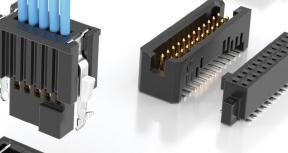


RUGGED TIGER EYE™ SYSTEMS

(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









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	3.7A per pin (2 pins powered)	275 VAC	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	3.1 A per pin (2 pins powered)	350 VAC	(Call Samtec for E.L.P.™ plating option)	Yes



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

SERIES

NO. PINS PER ROW STYLE PLATING OPTION

ROW OPTION

TFM = Standard

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

TFM

TFML

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, -REÍ 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)

(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)

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)

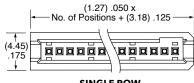


Board Mates: Cable Mates:

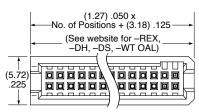
Board Mates:

Cable Mates:

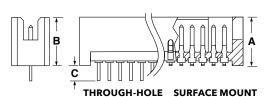
TFSD (-T end option)



SINGLE ROW



DOUBLE ROW



MATED HEIGHTS*					
LEAD ST					
TFM	SFM	MATED HEIGHT*			
-02		(6.35) .250			
-12	-02	(8.13) .320			
-22	-02	(9.91) .390			
-32		(11.81) .465			
LEAD ST	YLE (T/H)	MATED HEIGHT*			
TFM	SFM	MAIED REIGHT"			
-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			
+D .	11	and the second second			

*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 row option

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















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

Mouser Electronics

Authorized Distributor

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

Samtec:

TFM-105-02-S-D TFM-150-01-S-D-RA TFM-105-02-S-D-A-P-TR TFM-120-01-S-D-RA TFM-145-01-S-D-RA TFM-105-02-S-D-A TFM-110-02-S-D-LC TFM-105-01-L-D-RA TFM-125-02-S-D-LC TFM-150-12-S-D-LC TFM-115-32-S-D-A TFM-115-01-S-D TFM-115-02-S-D-A-P-TR TFM-115-01-S-D-WT TFM-130-02-S-D-A TFM-115-32-S-D-LC TFM-120-12-S-D-A TFM-125-22-S-D-A TFM-130-32-S-D-A TFM-115-02-S-D-WT TFM-110-02-S-D-A-K-TR TFM-115-02-S-D-A TFM-130-22-S-D-A TFM-120-32-S-D-A-P-TR TFM-125-02-S-D-A-P-TR TFM-110-02-S-D-K-TR TFM-110-02-S-D-A TFM-115-22-S-D-A TFM-135-32-S-D-A TFM-110-01-S-D-RA TFM-125-01-S-D-RA TFM-120-12-S-D-A-P-TR TFM-105-12-L-D-A TFM-110-22-S-D-A-P-TR TFM-135-01-S-D-RA TFM-105-02-L-D-A TFM-105-01-S-D-RA TFM-140-01-S-D-RA TFM-115-02-S-D TFM-110-02-S-D-WT TFM-125-01-L-D-RA TFM-105-01-S-D-LC TFM-115-02-L-D-WT-P-TR TFM-105-02-S-D-LC-P TFM-110-02-S-D-WT-TR TFM-105-02-S-D-A-P TFM-140-32-L-D-LC TFM-125-12-S-D-LC TFM-104-01-L-D-WT TFM-104-02-L-DH TFM-105-02-L-D-A-K TFM-105-02-S-D-P-TR TFM-103-01-L-D-WT TFM-115-12-L-D-A TFM-115-02-S-D-LC TFM-107-01-L-D TFM-110-12-S-D-A TFM-115-02-L-D-WT-K TFM-125-01-L-D-DS TFM-115-22-S-D-A-P-TR TFM-140-11-S-D TFM-125-02-S-D-A-K-TR TFM-125-02-S-D-WT TFM-120-02-L-D-A TFM-104-02-L-D TFM-103-02-L-DH TFM-105-01-S-D TFM-105-02-L-D-K-TR TFM-105-02-L-D-P-TR TFM-107-02-S-S-WT TFM-110-02-S-D-SN TFM-140-11-S-D-LC TFM-120-03-L-D TFM-120-32-S-D-A TFM-105-02-L-D-LC TFM-110-02-S-D-WT-P-TR TFM-120-02-L-D-LC TFM-125-21-S-D TFM-150-22-S-D-A TFM-115-02-S-D-WT-K-TR TFM-130-01-S-D-RE2-WT TFM-104-01-L-D-RE2-WT TFM-105-02-L-D-WT TFM-105-32-L-D-A TFM-110-02-L-D TFM-105-02-S-D-DS TFM-105-02-S-D-K-TR TFM-110-11-L-D TFM-105-01-S-D-RE2-WT TFM-105-32-F-D-A-K-TR TFM-115-01-L-D-WT TFM-115-22-L-D-A TFM-115-01-L-D-DS TFM-120-02-S-D-LC TFM-110-02-L-D-WT-K TFM-110-11-S-D TFM-125-02-L-DH TFM-140-32-S-D-LC TFM-110-02-S-D-A-P-TR TFM-120-03-L-D-WT