

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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IDC cable assemblies with rugged strain relief (FFSD/FFMD, FFTP/FMTP)



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

TFM

= Standard

TFML

= Locking (-01 & -02

lead style

only)

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

-L

= 15 µ"

(0.38 µm) Gold on post, Matte Tin on tail

(Call Samtec for E.L.P.™

plating option)

ROW OPTION

-S

(TFM only)

-D

= Double Row

-DH*

= Double

Horizontal

(TFM lead

style -02 only)

(05 thru 50 positions only) (-TR or -FR

option only

available)

Single Row

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

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)

OPTIONS

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)

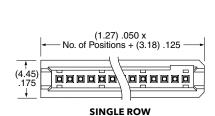
TFM

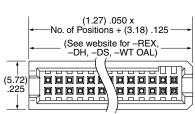
Board Mates:

Cable Mates:

TFML Board Mates:



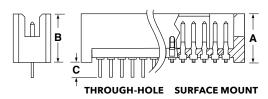




DOUBLE ROW

-WT

-DS



MATED HEIGHTS*						
LEAD STYLE (SMT)						
TFM	SFM	MATED HEIGHT*				
-02		(6.35) .250				
-12	- 02 (8.13) .320					
-22	-02	(9.91) .390				
-32		(11.81) .465				
LEAD ST	MATER HEICHT					
TFM	SFM	MATED HEIGHT*				
-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				

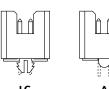
*Processing	conditions	will	affect	mated	heiaht.

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	

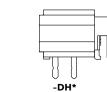
LEAD STYLE (T/H)	В	С
-01	(5.59) .220	(1.97) .078
-03*	(5.59) .220	(2.77) .109
-11*	(7.37) .290	(1.97) .078
-13*	(7.37) .290	(2.77) .109
-21*	(9.14) .360	(1.97) .078
-23*	(9.14) .360	(2.77) .109
-31*	(11.05) .435	(1.97) .078

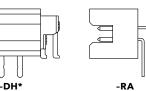
^{*} Not Available with 07 or -S row option

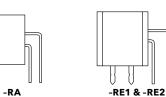


-LC -A Some lengths, styles and options

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