



(1,27 mm) .050"

SFM, SFML SERIES

SFM-110-02-L-D-A

SFML-125-T2-L-D-LC

SFM-125-02-L-SH

SFML-115-T2-L-D-LC

SMT & THROUGH-HOLE TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SFM or www.samtec.com?SFML

Insulator Material:

Black Liquid
Crystal Polymer

Contact Material:

Tiger Eye™ = BeCu
Tiger Eye™ LITE =
Phosphor Bronze

Plating:

Au or Sn over 50µ" (1,27 µm) Ni

Voltage Rating:

350 VAC mated with TFM

Operating Temp Range:

-55°C to +125°C

Contact Resistance:

15 mΩ

Insertion Depth:

(3,05 mm) .120" to

(4,06 mm) .160"

Wiping Distance:

(0,38 mm) .015"

Normal Force:

Standard= 132 g (1,29 N) avg.;

LIF= 90 g (0,88 N) avg.

Insertion Force (SFM):

(Single contact only)

Standard= 2.5 oz (0,69 N) avg.;

LITE= 2.0 oz (0,56 N) avg.;

LIF= 1.4 oz (0,39 N) avg.

Withdrawal Force (SFM):

(Single contact only)

Standard= 2.0 oz (0,56 N) avg.;

LITE= 1.5 oz (0,42 N) avg.;

LIF= 1.0 oz (0,28 N) avg.

Insertion Force (SFML):

(Single contact only)

2.5 oz (0,69 N) avg.

Unmating Force (SFML):

Withdrawal force per contact

(Single contact only)= 1.5 oz

(0,42 N) average; Incremental

unmating force with friction

locks: 10-20 pins/row (One

Lock) increases withdrawal

force by 4 x average; 25 & 30

pins/row (Two Locks) increases

withdrawal force by 3 x average;

35-50 pins/row (Three Locks)

increases withdrawal force by

1.7 x average

Max Cycles:

10,000 with 30µ" (0,76 µm) Au

(Call Samtec for E.L.P.

plating option)

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10 mm) .004" max (05-25)

(0,15 mm) .006" max (30-50)

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

SFM Mates with:
TFM, TFSD, TFSS,
FTS, FW, FTSH

SFML Mates with:
TFML, TFSD (-XL option),
TFSDT (-XL option)



Low insertion force
Tiger Eye™ contacts available

(1,27 mm x 1,27 mm)
.050" x .050" micro pitch

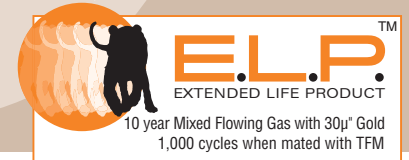
Locking feature
increases unmating
force (SFML)

Choice of SMT or
through-hole tails

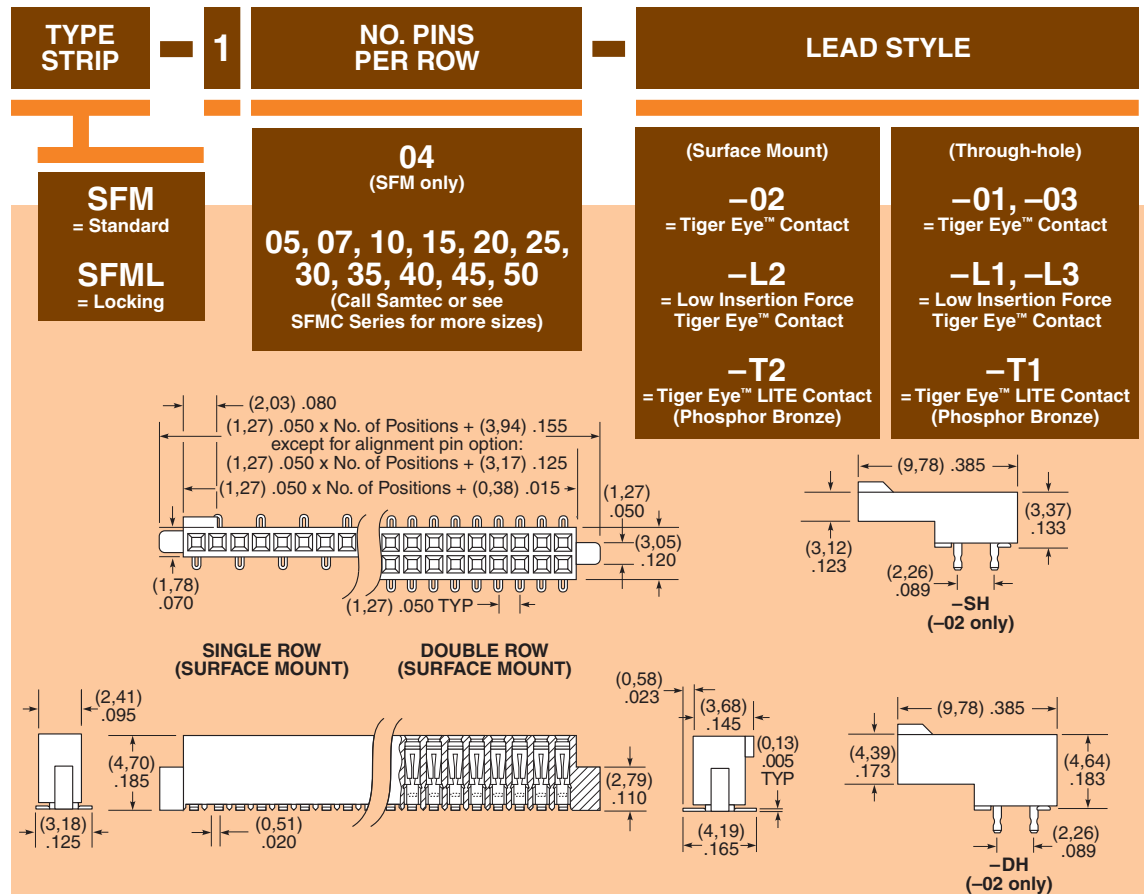
CURRENT RATING (PER CONTACT)	
AMBIENT TEMP	TFM/SFM
20°C	5A
40°C	4.5A
60°C	3.9A
95°C	2.6A
6 POSITIONS (2x3) POWERED	



- Passes 10 Year MFG
- Locking option
- Locking clip option
- Screw Down option



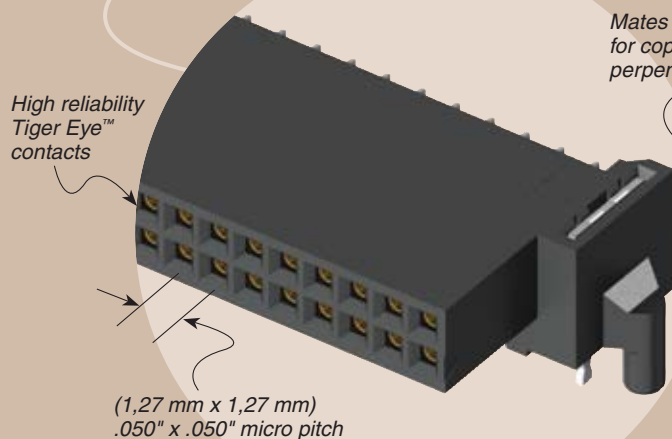
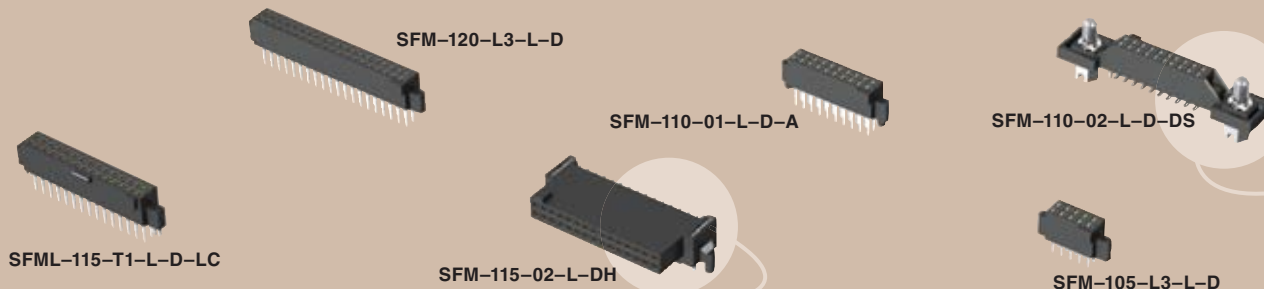
10 year Mixed Flowing Gas with 30µ" Gold
1,000 cycles when mated with TFM



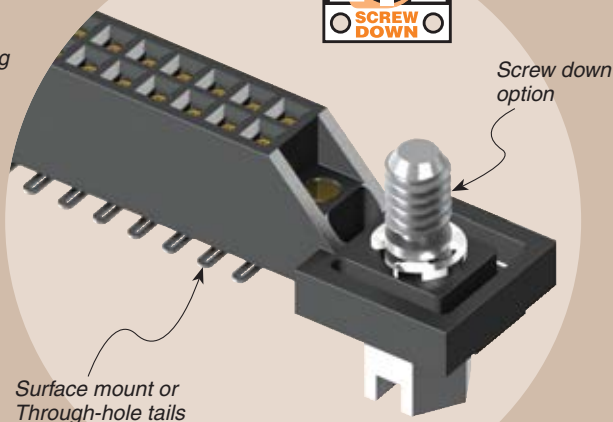
Due to technical progress, all designs, specifications and components are subject to change without notice.

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Mates with TFM
for coplanar and
perpendicular mating



COST-SAVING APPLICATIONS

See SFC Series for lower cost plating options.

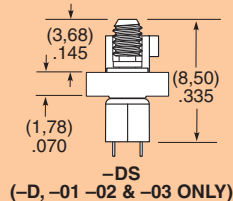
PLATING OPTION

-L

= 10μ" (0,25 μm) Gold on contact, Matte Tin on tail
(Call Samtec for E.L.P. plating option)

Note: Other Gold plating options available.
Contact Samtec.

LEAD STYLE	A	B
-01, -L1, -T1	(3,05) .120	(0,51) .020
-03, -L3	(1,91) .075	(0,41) .016



ROW OPTION

-S

= Single Row
(SFM only)

-D

= Double Row

-SH

= Single Horizontal
(05 thru 30 positions only)
(SFM only)
(Lead style -02 only)

-DH

= Double Horizontal
(05 thru 30 positions only)
(SFM only)
(Lead style -02 only)

OPTION

Specify only -A, -LC or -DS
(Not available with -DH, -SH)

-A

= Alignment Pin
(Available with all Lead Styles)

-LC

= Locking Clip
(Available with all lead styles)
(Manual placement required)

-DS

= Dual Screw Down for
(1,60mm) .062" PCB
(05 thru 40 positions only)
(Lead styles -01, -02 & -03 only)
(Requires -D row option)
(Not available with SFML)
(Mates with TFM-DS option)

Specify only
-K or -P
(Lead styles -02,
-L2, -T2 only)

-K

= Polyimide film
Pick & Place Pad
(Not available
with -DH, -SH)

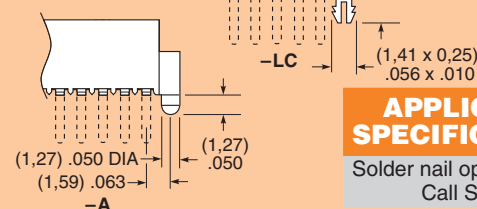
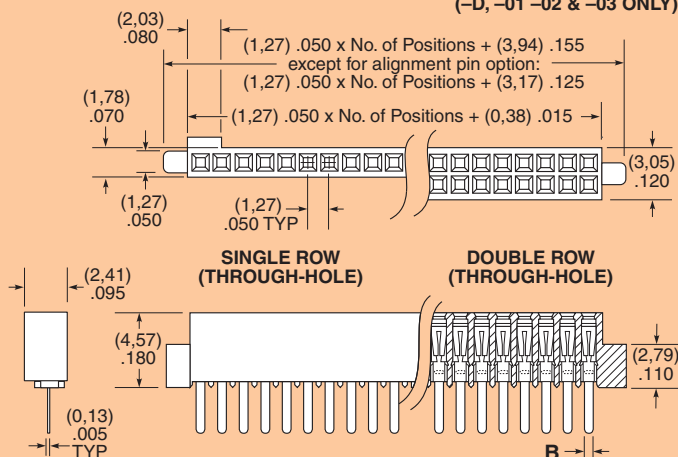
-P

= Plastic Pick &
Place Pad
(Not available
with -DH, -SH)

Specify -TR last
(Lead styles -02,
-L2, -T2 only)

-TR

= Tape & Reel
(Required callout
for -DH, -SH)



APPLICATION SPECIFIC OPTION

Solder nail option available.
Call Samtec.

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