



(1.27 mm) .050"

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
Plating:

Au or Sn over 50µ" (1.27 µm) Ni
Current Rating (SFM/TFM):

3.2 A per pin
(1 pin powered per row)

Voltage Rating:
250 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.

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)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594 FILE NO. 090071_0_000

SFM Mates with:
TFM, TFSD, TFSS

SFML Mates with:
TFML



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

RUGGEDIZED
BY SAMTEC

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

TYPE STRIP

1

NO. PINS PER ROW

LEAD STYLE

SFM
= Standard

SFML
= Locking

03, 04, 06, 08
(SFM only)

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

(Surface Mount)

-02
= Tiger Eye™ Contact
(BeCu)

-L2
= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

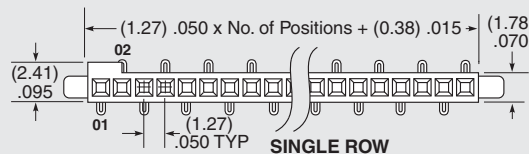
-T2
= Tiger Eye™ LITE Contact
(Phosphor Bronze)

(Through-hole)

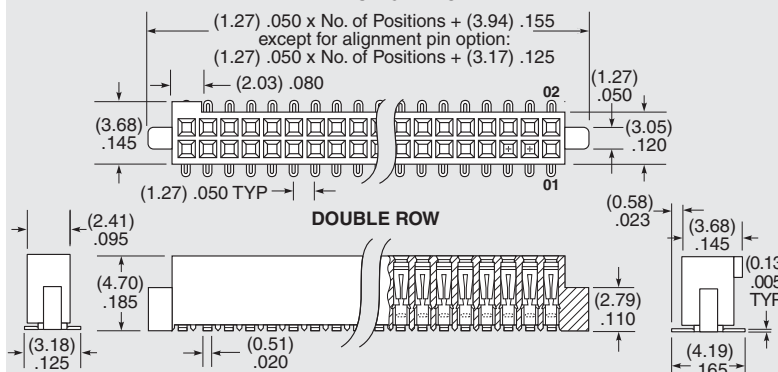
-01, -03
= Tiger Eye™ Contact
(BeCu)

-L1, -L3
= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

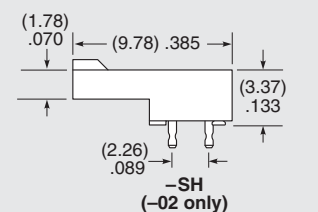
-T1
= Tiger Eye™ LITE Contact
(Phosphor Bronze)



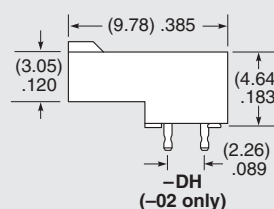
SINGLE ROW



DOUBLE ROW

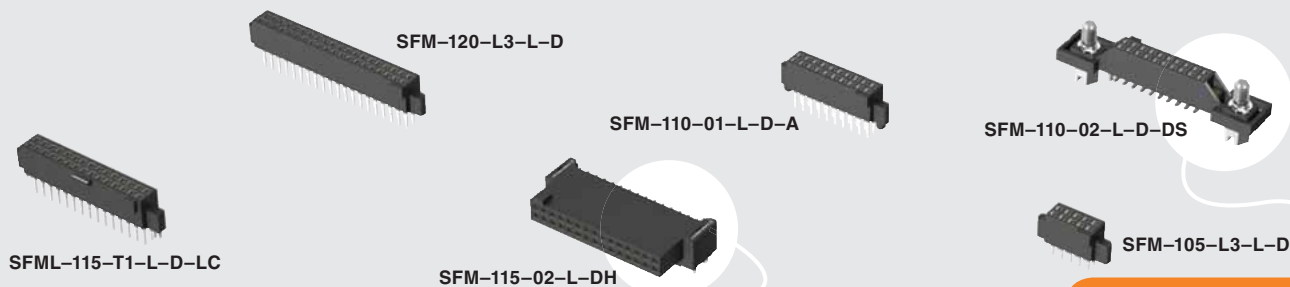


-SH
(-02 only)



-DH
(-02 only)

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



SFM, SFML SERIES



High reliability
Tiger Eye™
contacts

(1.27 mm x 1.27 mm)
.050" x .050" micro pitch

OTHER SOLUTIONS

- Lower cost plating options.
See SFC Series.

Mates with TFM
for coplanar and
perpendicular mating

Surface mount or
Through-hole tails

Screw down
option

ALSO AVAILABLE (MOQ Required)

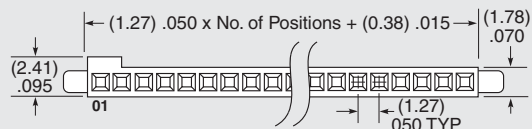
- Solder nail option
- Other sizes
- Other platings
- Contact Samtec.

PLATING OPTION

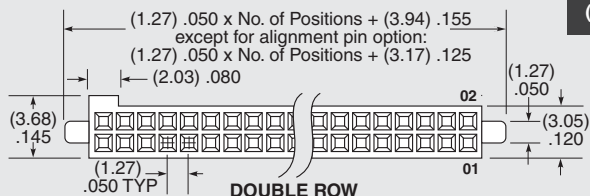
-L

= 10μ" (0.25 μm) Gold on contact, Matte Tin on tail
(Call Samtec for E.L.P.™ plating option)

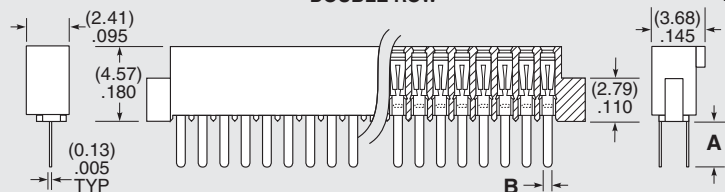
LEAD STYLE	A	B
-01, -L1, -T1	(3.05) .120	(0.51) .020
-03, -L3	(1.91) .075	(0.41) .016



SINGLE ROW



DOUBLE ROW



ROW OPTION

-S

= Single Row
(SFM only)

-D

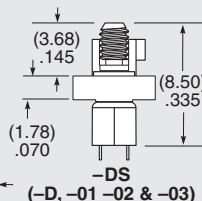
= Double Row

-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)



-DS
(-D, -01 -02 & -03)

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
(1.60 mm) .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)
(Not available with -A,
-LC, -K, -P, -TR)

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)

