

(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)

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

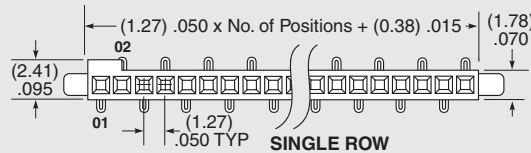
= Tiger Eye™ Contact
(BeCu)

-L1, -L3

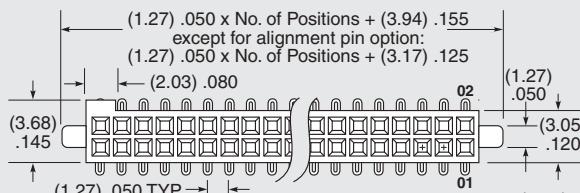
= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

-T1

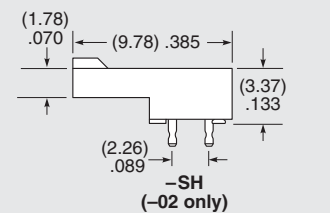
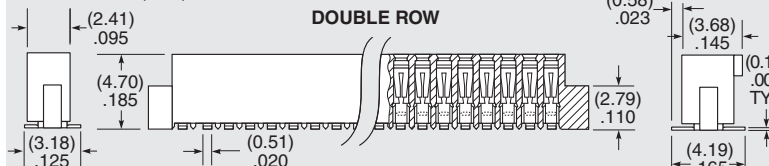
= Tiger Eye™ LITE Contact
(Phosphor Bronze)



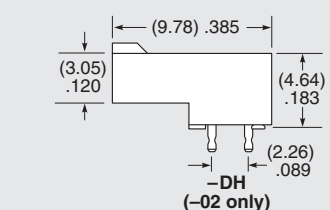
SINGLE ROW



DOUBLE ROW



-SH
(-02 only)



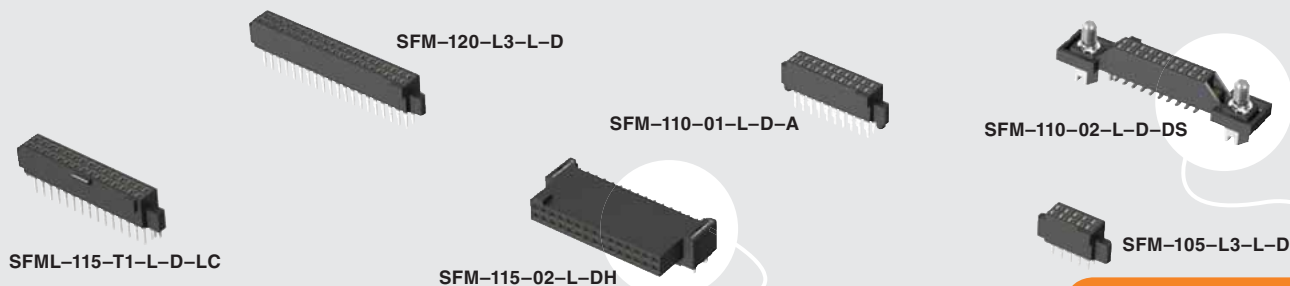
-DH
(-02 only)

RECOGNITIONS

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



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

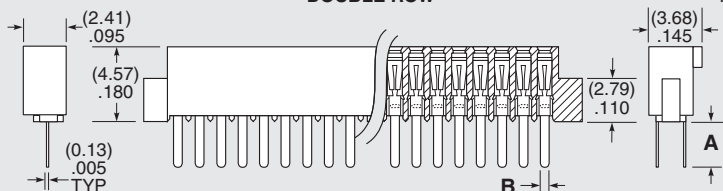
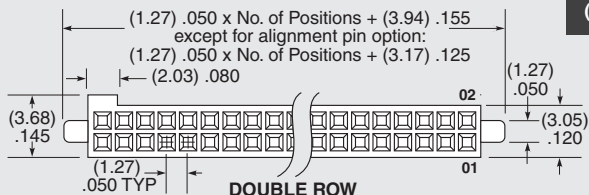
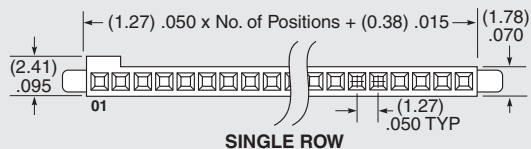
ALSO AVAILABLE (MOQ Required)

- 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	



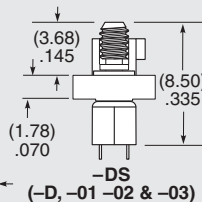
ROW OPTION

-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
(1.60 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)

