

(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 50 μ" (1.27 μm) Ni

Current Rating (SFM/TFM):

3.2 A per pin

(2 pins powered)

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.

Max Cycles:

10,000 with 30 μ" (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)*

*(.004" stencil solution may be available; contact

IPG@samtec.com)

RECOGNITIONS

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



FILE NO. E111594

SFM Board Mates:

TFM

SFM Cable Mates:

TFSD, TFSS

SFML Board Mates:

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)

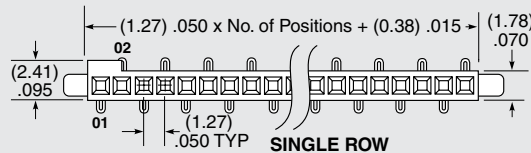
-01, -03

= Tiger Eye™ Contact
(BeCu)

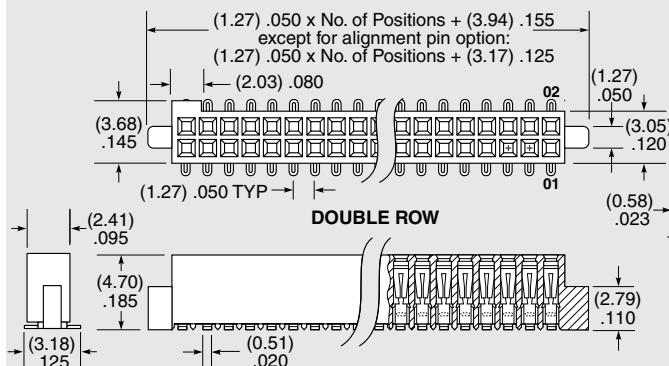
-L1, -L3

= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

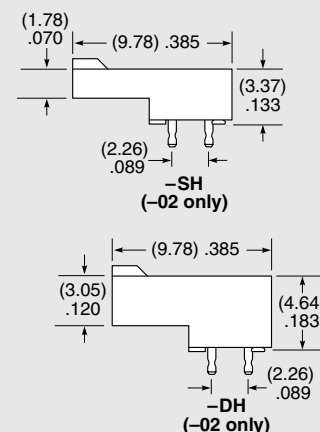
-T1
= Tiger Eye™ LITE Contact
(Phosphor Bronze)



SINGLE ROW



DOUBLE ROW



-SH
(-02 only)

-DH
(-02 only)

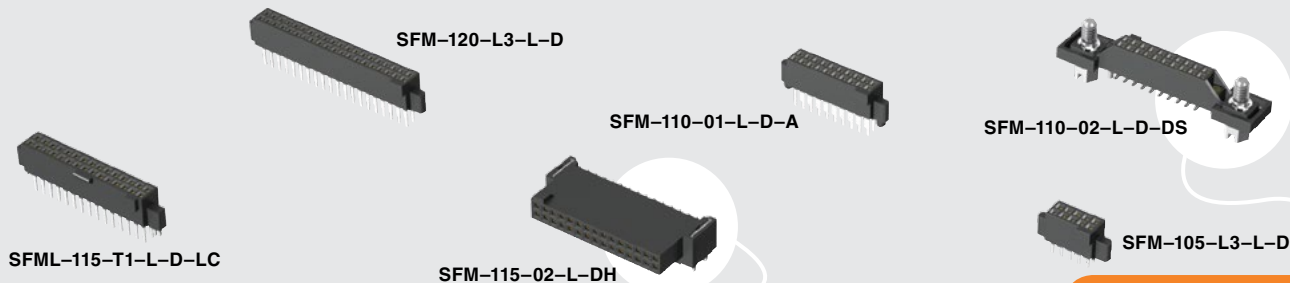
Due to technical progress, all designs, specifications and components are subject to change without notice.

WWW.SAMTEC.COM

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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

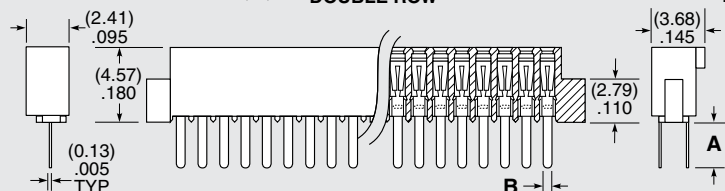
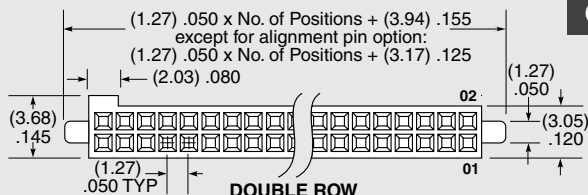
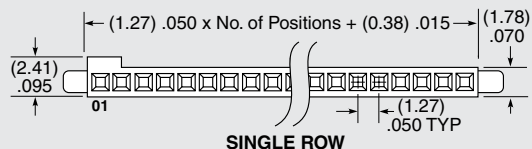
ALSO AVAILABLE (MOQ Required)

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

PLATING OPTION

-L
= 10 μ" (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	



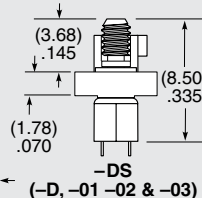
ROW OPTION

-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)

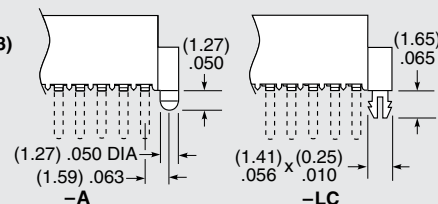
Specify only
-K or -P
(Lead styles -02,
-L2, -T2 only)

-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)



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