

(1.27 mm) .050"

SMT & THROUGH-HOLE TIGER EYE™ SOCKET

SPECIFICATIONS

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

RoHS Compliant:
Yes

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

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)

RECOGNITIONS



FILE NO. E111594

TYPE STRIP

1

NO. PINS PER ROW

03, 04, 06, 08
(SFM only)

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

LEAD STYLE

(Surface Mount)

-02

= Tiger Eye™ Contact
(BeCu)

-L2

= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

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

(Through-hole)

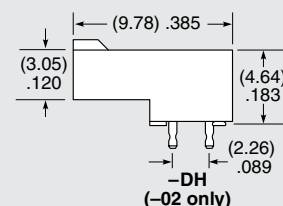
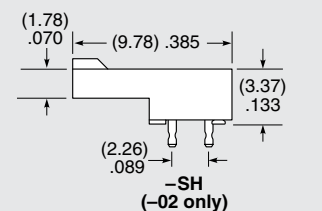
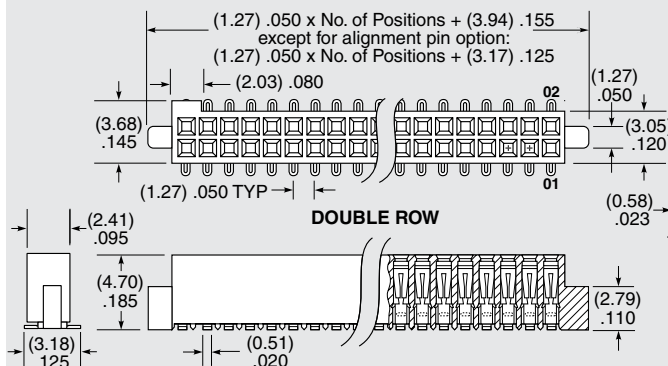
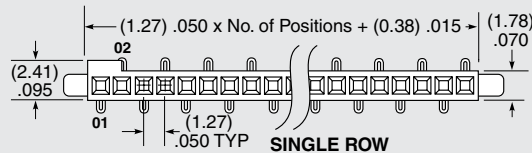
-01, -03

= Tiger Eye™ Contact
(BeCu)

-L1, -L3

= Low Insertion Force
Tiger Eye™ Contact
(BeCu)

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



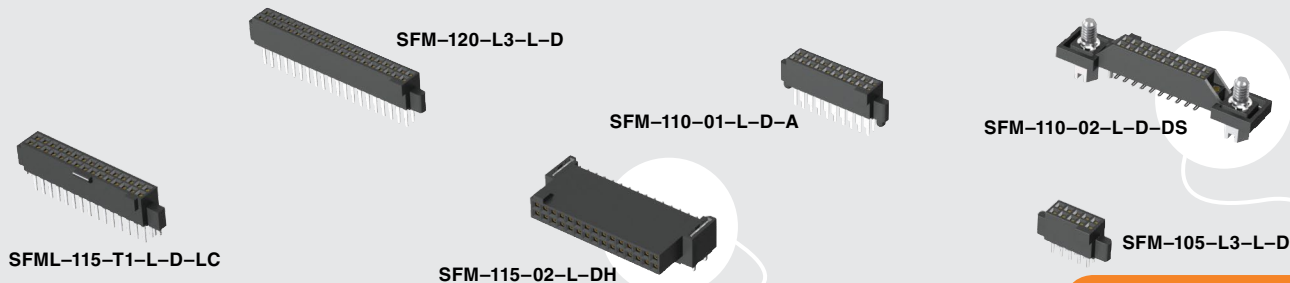
Note: Some sizes, styles and options are non-standard, non-returnable.

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

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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.



SFM, SFML SERIES

High-reliability
Tiger Eye™
contacts

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

Mates with TFM
for coplanar and
perpendicular mating

Surface mount or
Through-hole tails

Screw down
option

OTHER SOLUTIONS

- Lower cost plating options.
See SFC Series.

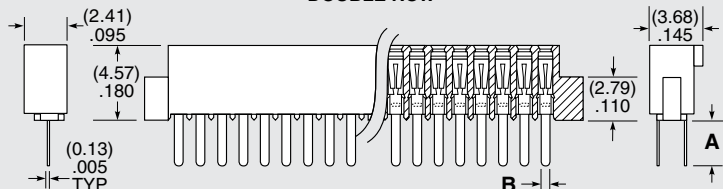
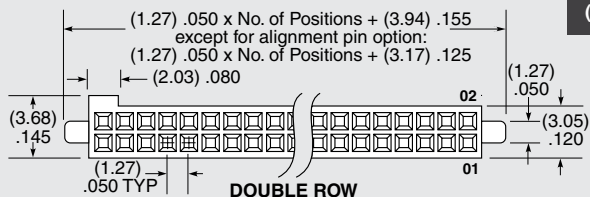
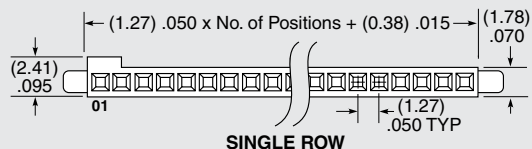
ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings

PLATING OPTION

-L
= 10 μ" (0.25 μm) Gold on contact,
Matte Tin on tail

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



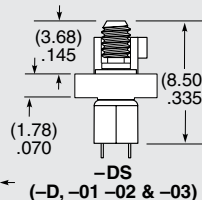
ROW OPTION

-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)

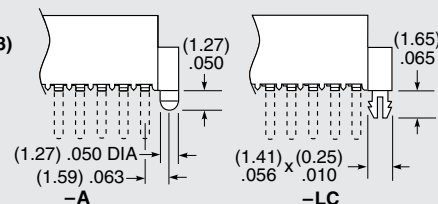
Specify only
-K or -P
(Lead styles -02,
-L2, -T2 only)

-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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