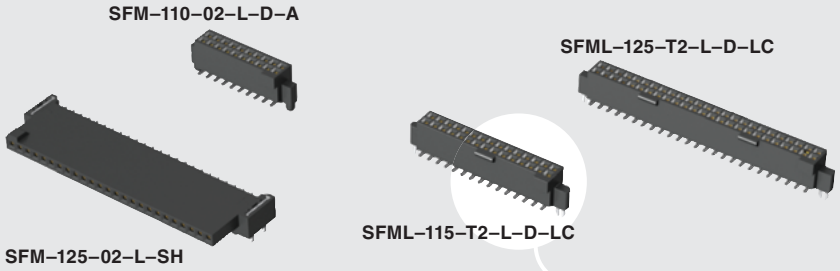
samtec

TIGER EYE™ SYSTEM

(1,27 mm) .050"



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

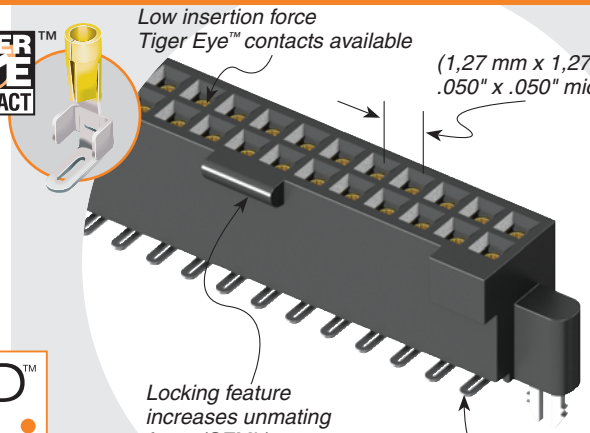
FILE NO: 090871_0_000

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

SFM Mates with:
TFM, TFSD, TFSS

SFML Mates with:
TFML

TIGER EYE™ CONTACT

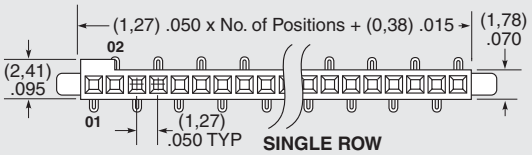


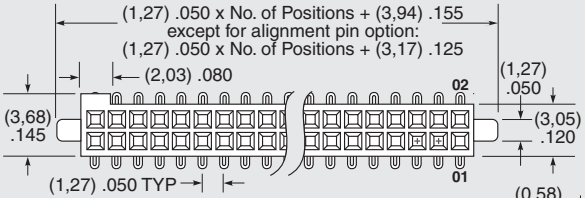
E.L.P.™
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles

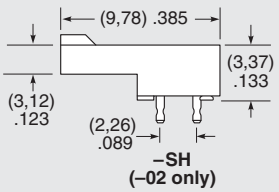
RUGGEDIZED by SAMTEC

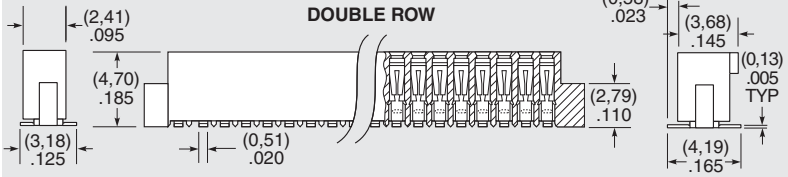
- Passes 10 Year MFG
- Locking option
- Locking clip option
- Screw Down option

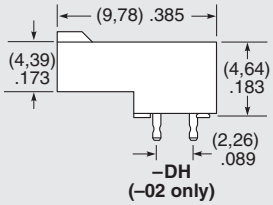
TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	
			(Surface Mount)	(Through-hole)
SFM = Standard SFML = Locking		03, 04, 06, 08 (SFM only) 05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Standard sizes)	–02 = Tiger Eye™ Contact (BeCu) –L2 = Low Insertion Force Tiger Eye™ Contact (BeCu) –T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	–01, –03 = Tiger Eye™ Contact (BeCu) –L1, –L3 = Low Insertion Force Tiger Eye™ Contact (BeCu) –T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)











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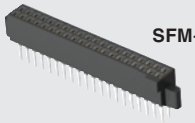
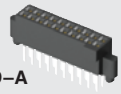
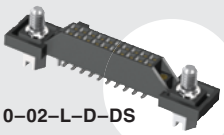
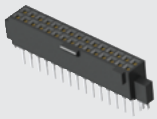
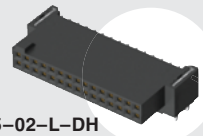

SFM–120–L3–L–D


SFM–110–01–L–D–A


SFM–110–02–L–D–DS

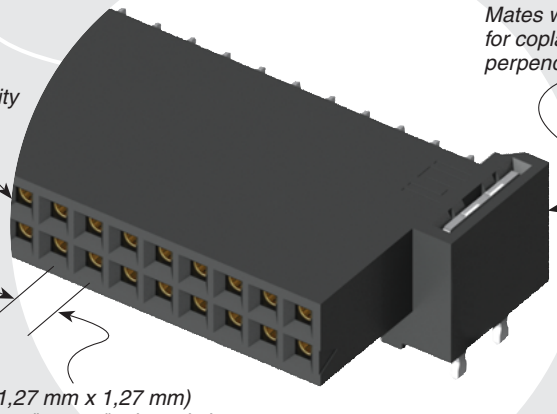

SFFML–115–T1–L–D–LC

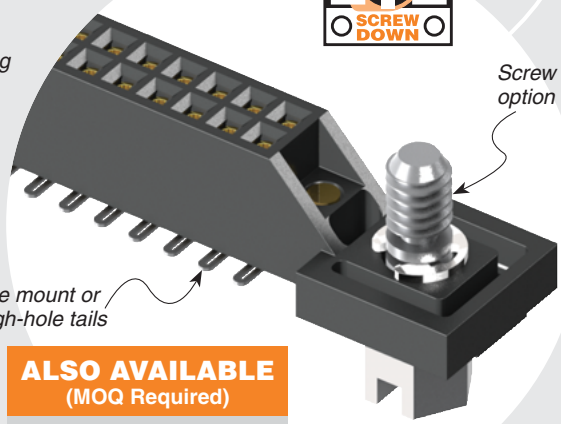

SFM–115–02–L–DH

SFM–105–L3–L–D

SFM, SFML SERIES

TIGER EYE™ SCREW DOWN





OTHER SOLUTIONS

- Lower cost plating options. See SFC Series.

ALSO AVAILABLE (MOQ Required)

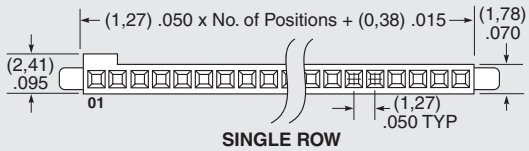
- Solder nail option
- Other sizes
- Other platings

Contact Samtec.

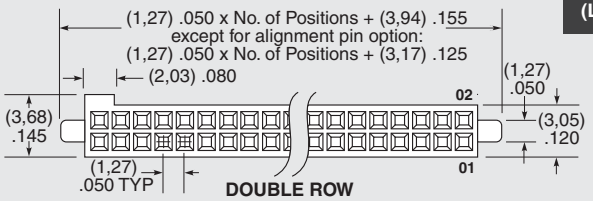
PLATING OPTION

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

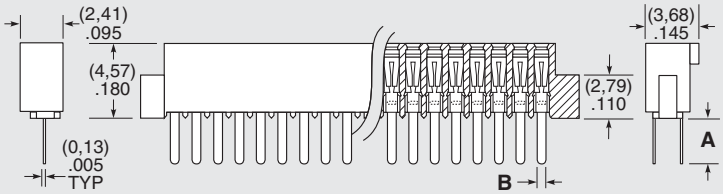
LEAD STYLE	A	B
–01, –L1, –T1	(3,05) .120	(0,51) .020
–03, –L3	(1,91) .075	(0,41) .016

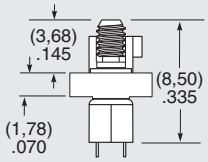


SINGLE ROW

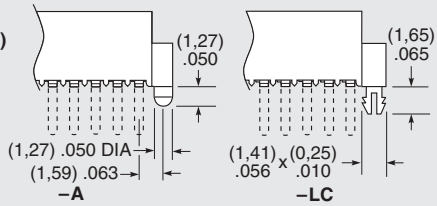


DOUBLE ROW





–DS
(–D, –01 –02 & –03)



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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