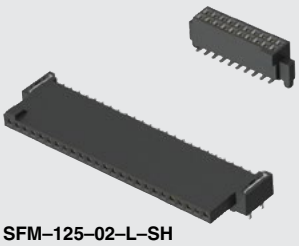
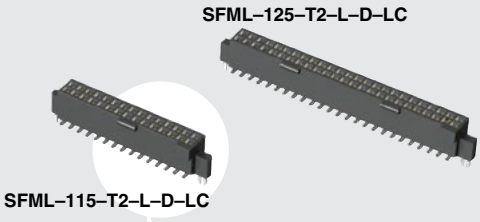
samtec

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 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
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

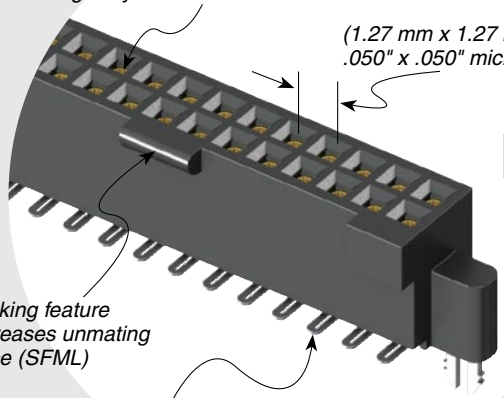
Note:
Some sizes, styles and options are non-standard, non-returnable.

SFM Board Mates:
TFM

SFM Cable Mates:
TFSD, TFSS

SFML Board Mates:
TFML

TIGER™ EYE CONTACT



10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

RUGGEDIZED BY SAMTEC

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

HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

8 Gbps

TYPE STRIP	–	1	NO. PINS PER ROW	–	LEAD STYLE	–

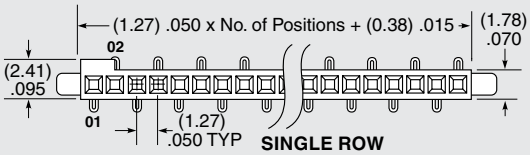
SFM
= Standard

SFML
= Locking

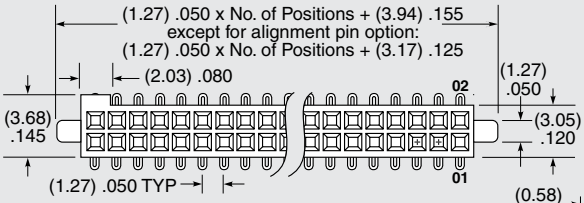
03, 04, 06, 08
(SFM only)

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

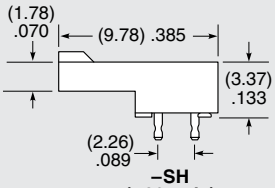
(Surface Mount)	(Through-hole)
–02 = Tiger Eye™ Contact (BeCu)	**–01, –03** = Tiger Eye™ Contact (BeCu)
–L2 = Low Insertion Force Tiger Eye™ Contact (BeCu)	**–L1, –L3** = Low Insertion Force Tiger Eye™ Contact (BeCu)
–T2 = Tiger Eye™ LITE Contact (Phosphor Bronze)	**–T1** = Tiger Eye™ LITE Contact (Phosphor Bronze)



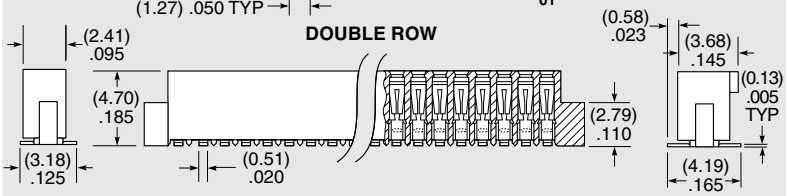
SINGLE ROW

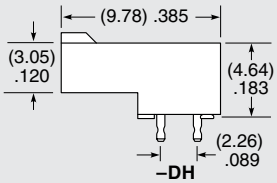


DOUBLE ROW



–SH
(–02 only)





–DH
(–02 only)

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

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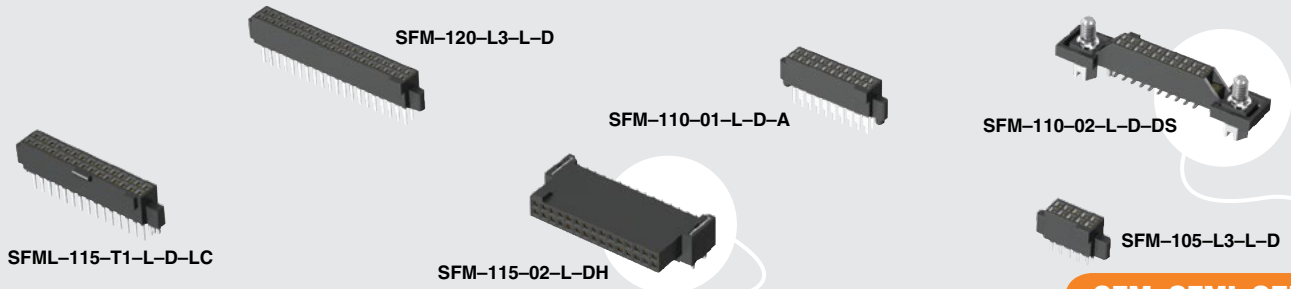
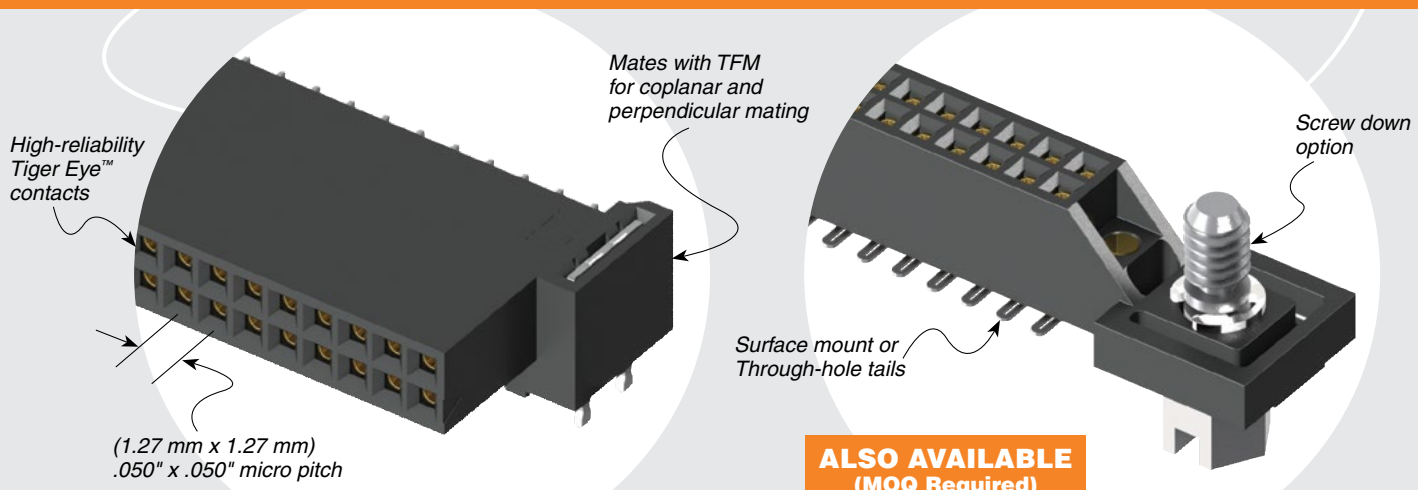
Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.



SFM, SFML SERIES



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
(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)

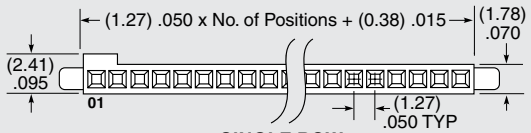
Specify only
–K or –P
(Lead styles –02, –L2, –T2 only)

–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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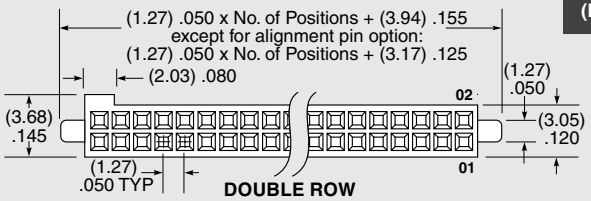
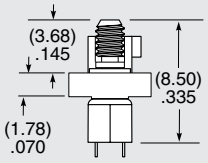
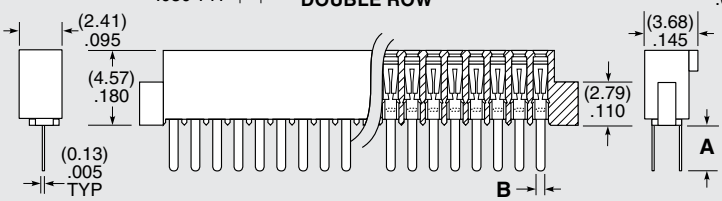
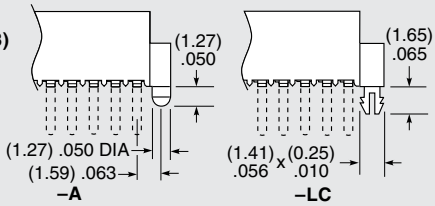


DOUBLE ROW



–DS
(–D, –01 –02 & –03)





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