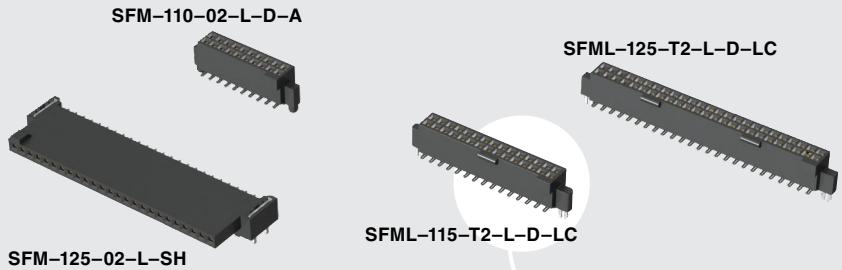


(1.27 mm) .050"



# SMT & THROUGH-HOLE TIGER EYE™ SOCKET

## SPECIFICATIONS

**Insulator Material:** Black Liquid Crystal Polymer  
**Plating:** Au or Sn over 50  $\mu$ " (1.27  $\mu$ m) 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 m $\Omega$   
**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  $\mu$ " (0.76  $\mu$ m) 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:

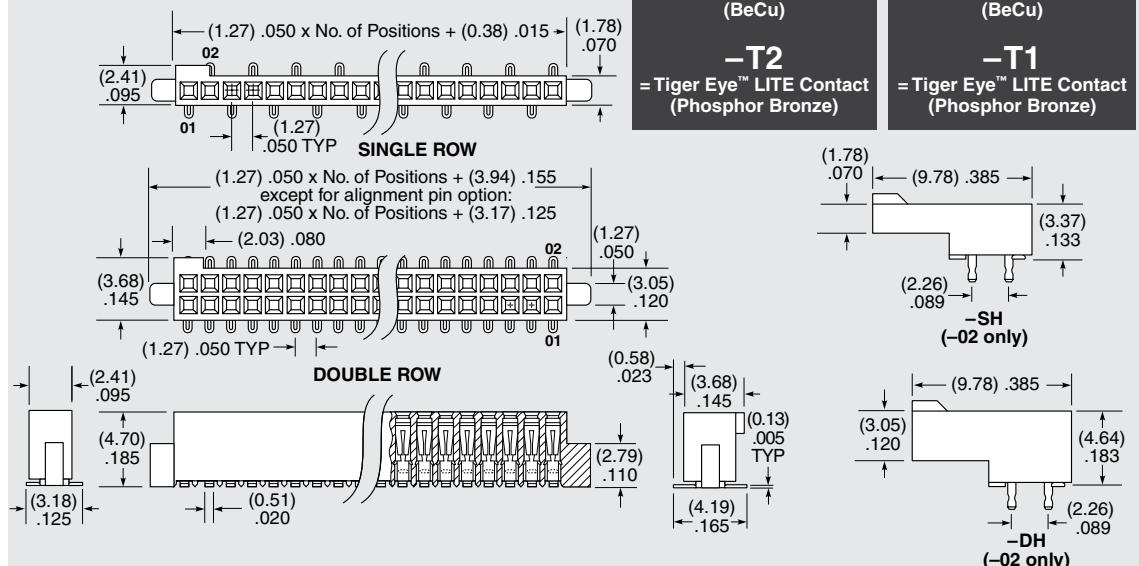
(0.10 mm) .004" max (05-25)  
(0.15 mm) .006" max (30-50)\*  
(\*.004" stencil solution may be available)

## RECOGNITIONS



FILE NO. E111594

TYPE STRIP	NO. PINS PER ROW	LEAD STYLE
1	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)
SFM = Standard  SFML = Locking		(Through-hole)  -01, -03 = Tiger Eye™ Contact (BeCu)  -L1, -L3 = Low Insertion Force Tiger Eye™ Contact (BeCu)  -T1 = Tiger Eye™ LITE Contact (Phosphor Bronze)



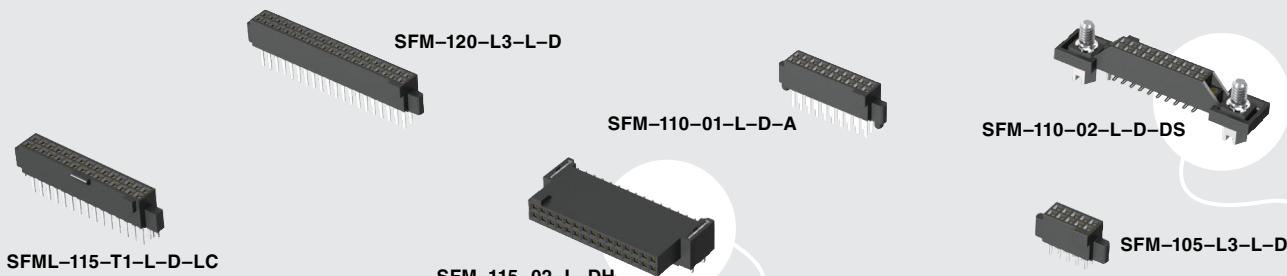
**Note:** Some sizes, styles and options are non-standard, non-returnable.

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

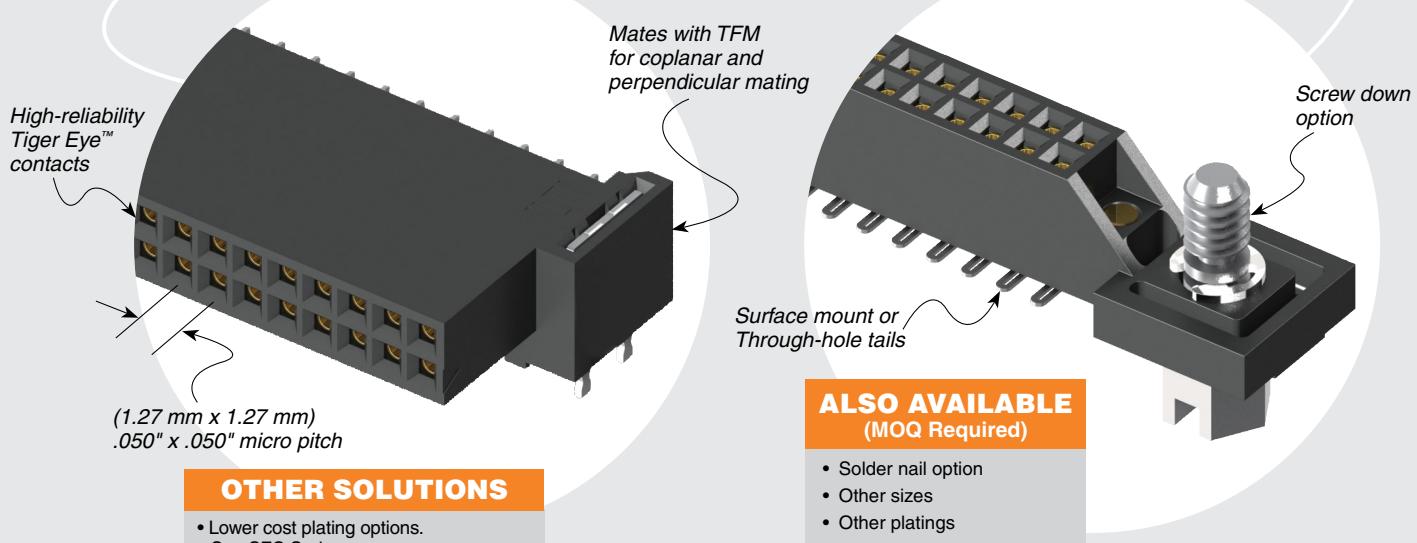
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All parts within this catalog are built to Samtec's specifications.

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



## SFM, SFML SERIES



### OTHER SOLUTIONS

- Lower cost plating options.  
See SFC Series.

### ALSO AVAILABLE (MOQ Required)

- Solder nail option
- Other sizes
- Other platings

PLATING OPTION	ROW OPTION	OPTION							
<p><b>-L</b> = 10 <math>\mu</math>" (0.25 <math>\mu</math>m) Gold on contact, Matte Tin on tail</p> <table border="1"> <thead> <tr> <th>LEAD STYLE</th><th>A</th><th>B</th></tr> </thead> <tbody> <tr> <td>-01, -L1, -T1</td><td>(3.05) .120</td><td>(0.51) .020</td></tr> <tr> <td>-03, -L3</td><td>(1.91) .075</td><td>(0.41) .016</td></tr> </tbody> </table> <p><b>SINGLE ROW</b></p> <p><b>DOUBLE ROW</b></p> <p><b>-DS</b> = Dual Screw Down for (1.60 mm) .062" PCB (05 thru 40 positions only) (Lead styles -01, -02 &amp; -03 only) (Requires -D row option) (Not available with SFML) (Mates with TFM-DS option) (Not available with -A, -LC, -K, -P, -TR)</p> <p><b>-A</b> = Alignment Pin (Available with all lead styles)</p> <p><b>-K</b> = Polyimide film Pick &amp; Place Pad (Not available with -DH, -SH)</p> <p><b>-P</b> = Plastic Pick &amp; Place Pad (Not available with -DH, -SH)</p> <p><b>-TR</b> = Tape &amp; Reel (Required callout for -DH, -SH)</p>	LEAD STYLE	A	B	-01, -L1, -T1	(3.05) .120	(0.51) .020	-03, -L3	(1.91) .075	(0.41) .016
LEAD STYLE	A	B							
-01, -L1, -T1	(3.05) .120	(0.51) .020							
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