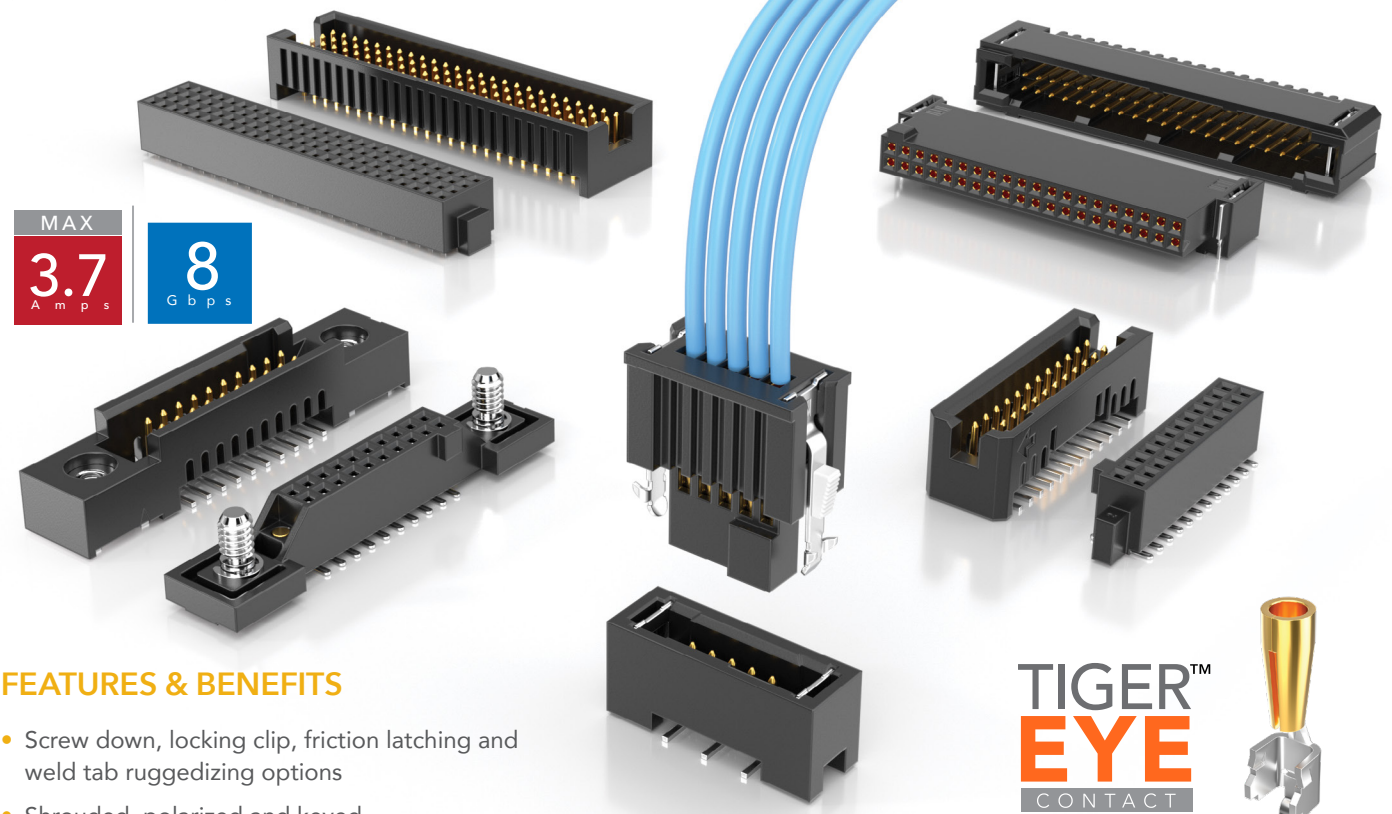
# THE DATASHEET OF

# SFM-130-02-S-D-LC-P-TR

TIGER™ EYE SYSTEM

# RUGGED TIGER EYE™ SYSTEMS

## (1.27 mm) .050" PITCH

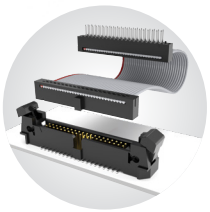



## FEATURES & BENEFITS

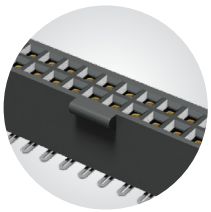
- Screw down, locking clip, friction latching and weld tab ruggedizing options
- Shrouded, polarized and keyed
- Surface mount or through-hole tails
- High-density, four row design (FOLC/MOLC Series)
- Discrete wire assemblies available in single or double row, 28 and 30 AWG PVC or *Teflon™ Fluoropolymer (See pages 238-239). Contact asp@samtec.com for custom solutions.
- Cable components (ISDF/CC03) and tooling available: samtec.com/tooling
- Severe Environment Testing qualified (SFM/TFM); aligns with MIL-DTL-55302. Visit samtec.com/set

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.

TIGER™ EYE CONTACT



IDC cable assemblies with rugged strain relief (FFSD/FFMD, FFTP/FMTP)



Locking for increased unmating force (SFML/TFML)

## KEY SPECIFICATIONS

| SERIES | STACK HEIGHTS | INSULATOR MATERIAL | CONTACT MATERIAL | PLATING | OPERATING TEMP RANGE | CURRENT RATING | VOLTAGE RATING | MAX. CYCLES | LEAD-FREE SOLDERABLE |
|---|---|---|---|---|---|---|---|---|---|
| SFM/TFM | 6 to 12 mm | Black LCP | BeCu (SFM) Phosphor Bronze (TFM) | Au or Sn over 50 µ" (1.27 µm) Ni | -55 °C to +125 °C | 3.7A per pin (2 pins powered) | 275 VAC | 10,000 with 30 µ" (0.76 µm) Au | Yes |
| SFC/TFC | 6 to 12 mm | Black LCP | Phosphor Bronze | Au or Sn over 50 µ" (1.27 µm) Ni | -55 °C to +125 °C | 3.1 A per pin (2 pins powered) | 350 VAC | (Call Samtec for E.L.P.™ plating option) | Yes |



Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

TIGER™ EYE SYSTEM

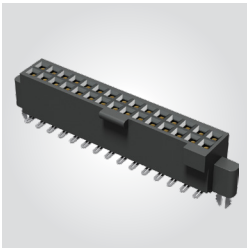
MAX 3.7 Amps | 8 Gbps

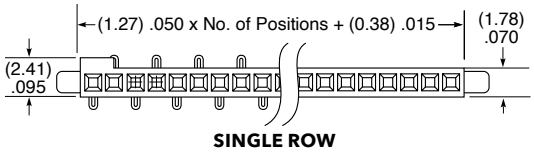
# (1.27 mm) .050" PITCH • SMT/THROUGH-HOLE SOCKET

| SERIES | 1 | NO. PINS PER ROW | LEAD STYLE | | PLATING OPTION | ROW OPTION | OPTIONS | |
|---|---|---|---|---|---|---|---|---|
| | | | (Surface Mount) | (Through-hole) | | | | |
| **SFM** = Standard<br>**SFML** = Locking | | **03, 04, 06, 08** (SFM only)<br>**05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50** (Standard sizes) | **–02** = Tiger Eye™ Contact (BeCu)<br>**–L2** = Low Insertion Force Tiger Eye™ Contact (BeCu)<br>**–T2** = Tiger Eye™ LITE Contact (Phosphor Bronze) | **–01, –03** = Tiger Eye™ Contact (BeCu)<br>**–L1, –L3** = Low Insertion Force Tiger Eye™ Contact (BeCu)<br>**–T1** = Tiger Eye™ LITE Contact (Phosphor Bronze) | **–L** = 10 µ" (0.25 µm) Gold on contact, Matte Tin on tail (Call Samtec for E.L.P.™ plating option) | **–S** = Single Row (SFM only)<br>**–D** = Double Row<br>**–SH** = Single Horizontal (05 thru 30 positions only) (SFM only) (Lead style –02 only)<br>**–DH** = Double Horizontal (05 thru 30 positions only) (SFM only) (Lead style –02 only) | Specify only –A, –LC or –DS (Not available with –DH, –SH)<br>**–A** = Alignment Pin<br>**–LC** = Locking Clip (Manual placement required)<br>**–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, –XR) | Specify only –K or –P (Lead styles –02, –L2, –T2 only)<br>**–K** = Polyimide film Pick & Place Pad (Not available with –DH, –SH)<br>**–P** = Plastic Pick & Place Pad (Not available with –DH, –SH)<br>Specify –TR or –FR last; Required for –DH & –SH. (Lead styles –02, –L2 & –T2 only)<br>**–TR** = Tape & Reel<br>**–FR** = Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |

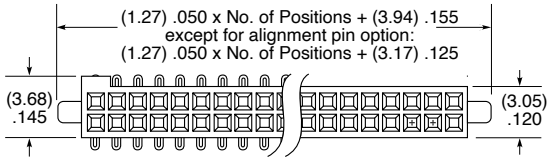
**SFM**
**Board Mates:** TFM
**Cable Mates:** TFSD, TFSS

**SFML**
**Board Mates:** TFML
**Cable Mates:** TFSD



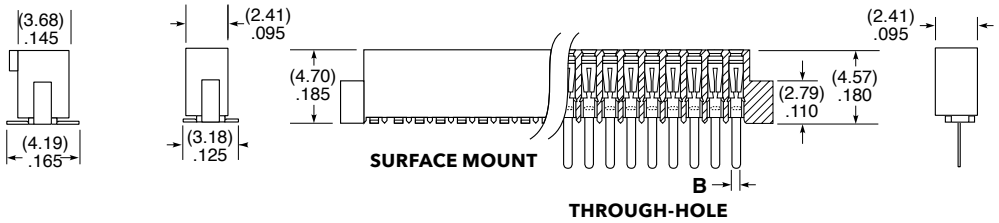


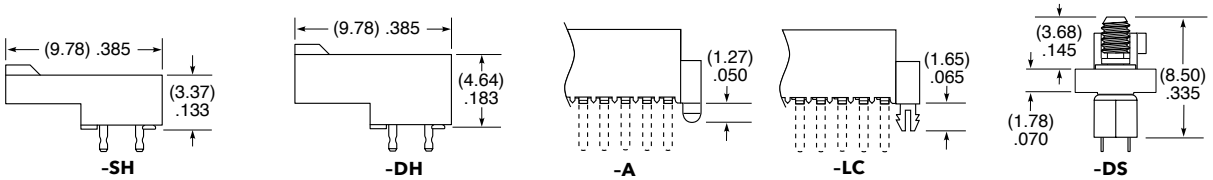
SINGLE ROW



DOUBLE ROW

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




**Notes:**
Severe Environment Testing qualified (SFM); aligns with MIL-DTL-55302. Visit samtec.com/set

Some lengths, styles and options are non-standard, non-returnable.

View complete specifications at: **samtec.com?SFM** & **samtec.com?SFML**

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## Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- View SFM-130-02-S-D-LC-P-TR on WIN SOURCE
- Samtec Inc. Information

## Optimize Your Supply Chain with WIN SOURCE Solutions

- Global Sourcing Solution
- Obsolete Management
- Cost Control Management
- Shortage Management
- Alternative Solution
- Excess Inventory Management