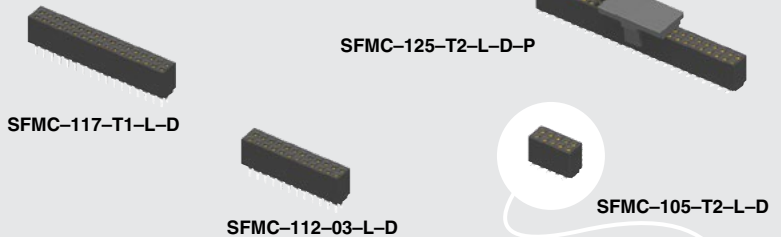




**TIGER EYE**  
SYSTEM



**SFMC SERIES**

**(1.27 mm) .050"**

# FLEXIBLE PIN COUNT TIGER EYE™ SOCKETS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SFMC](http://www.samtec.com?SFMC)

**Insulator Material:** Black Liquid Crystal Polymer

**Contact Material:** Tiger Eye™ = BeCu

Tiger Eye™ LITE = Phosphor Bronze

**Plating:** Au or Sn over 50 μ" (1.27 μm) Ni

**Current Rating:** 2.9 A per pin (2 pins powered)

**Voltage Rating:** 220 VAC/310 VDC

**Operating Temp Range:** -55 °C to +125 °C

**Insertion Depth:** (3.05 mm) .120" to (4.06 mm) .160"

**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

**Board Mates:** TFM

**Cable Mates:** FMTP, FFMD\*

\*Note: Standard FFMD callout will not mate with FLE, SFMC. Must use gold plated callouts. (See drawing on web.)



High-reliability Tiger Eye™ contacts

Any number of positions from 2 through 50

Slotted SMT tails

Available with optional pick & place pads

## HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**8**  
Gbps

## PROCESSING

**Lead-Free Solderable:** Yes

**SMT Lead Coplanarity:** (0.10 mm) .004" max (02-26) (0.15 mm) .006" max (27-50)\*

\*(.004" stencil solution may be available; contact [IPG@samtec.com](mailto:IPG@samtec.com))

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

## ALSO AVAILABLE (MOQ Required)

- Other platings

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

**SFMC**

**1**

**NO. PINS PER ROW**

**LEAD STYLE**

**PLATING OPTION**

**D**

**OPTION**

**02 thru 50**

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

**-01, -03**  
= Through-hole

**-L1, -L3**  
= Low Insertion Force Through-hole

**-02**  
= Surface Mount

**-L2**  
= Low Insertion Force Surface Mount

**-T1**  
= Through-hole Tiger Eye™ LITE

**-T2**  
= Surface Mount Tiger Eye™ LITE

**-P OPTION**

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

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

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.