



**TIGER  
EYE**  
SYSTEM

(1.27 mm) .050"

SFMC-117-T1-L-D

SFMC-125-T2-L-D-P

SFMC-112-03-L-D

SFMC-105-T2-L-D

SFMC SERIES

# 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.)

**TIGER  
EYE**  
CONTACT

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)

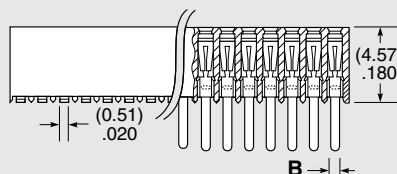
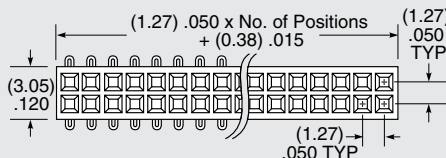
- Other platings

**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)<br>.120 | (0.51)<br>.020 |
| -03, -L3      | (1.91)<br>.075 | (0.41)<br>.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

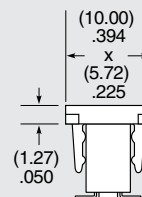
-T2  
= Surface Mount  
Tiger Eye™ LITE

-L  
= 10 μ" (0.25 μm)  
Gold on contact,  
Matte Tin on tail

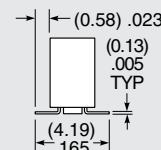
-K  
= (4.00 mm) .157  
DIA Polyimide  
film Pick &  
Place Pad  
(4 positions  
minimum)

-P  
= Plastic Pick &  
Place Pad  
(5 positions  
minimum)

-TR  
= Tape & Reel



### -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.