



(1.27 mm) .050"

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 μm (1.27 μm) Ni

**Operating Temp Range:**

-55 °C to +125 °C

**Contact Resistance:**

15 mΩ

**Insertion Depth:**

(3.05 mm) .120" to

(4.06 mm) .160"

**Insertion Force:**

(Single contact only)

Standard= 2.5 oz (0.69 N) avg.

LITE= 2.0 oz (0.56 N) avg.

LIF= 1.5 oz (0.42 N) avg.

**Normal Force:**

Standard= 132 g (1.29 N) avg.

LIF= 90 g (0.88 N) avg.

**Withdrawal Force:**

(Single contact only)

Standard= 2.0 oz (0.56 N) avg.

LITE= 1.5 oz (0.42 N) avg.

LIF= 1.5 oz (0.42 N) avg.

**Max Cycles:**

10,000 with 30 μm (0.76 μm) Au

**RoHS Compliant:**

Yes

**Processing:**

Lead-Free Solderable:

Yes

**SMT Lead Coplanarity:**

(0.10 mm) .004" max (02-26)

(0.15 mm) .006" max (27-50)

Mates with:  
TFM, FMTP, FFMD\*



High reliability  
Tiger Eye™  
contacts

Any number of  
positions from  
2 through 50

Slotted SMT tails

Available with optional  
Pick & Place Pads

<b>SFMC</b>	<b>1</b>	<b>NO. PINS PER ROW</b>	<b>LEAD STYLE</b>	<b>PLATING OPTION</b>	<b>D</b>	<b>OPTION</b>
<b>02 thru 50</b>			<p>-01, -03 = Through-hole</p> <p>-L1, -L3 = Low Insertion Force Through-hole</p> <p>-02 = Surface Mount</p> <p>-L2 = Low Insertion Force Surface Mount</p> <p>-T1 = Through-hole Tiger Eye™ LITE</p> <p>-T2 = Surface Mount Tiger Eye™ LITE</p>	<p>-L = 10 μm (0.25 μm) Gold on contact, Matte Tin on tail</p>	<p>-K = (4.00 mm) .157 DIA Polyimide film Pick &amp; Place Pad (4 positions minimum)</p> <p>-P = Plastic Pick &amp; Place Pad (5 positions minimum)</p> <p>-TR = Tape &amp; Reel</p>	

  

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

  

## RECOGNITIONS

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



## ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

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

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