



**THE DATASHEET OF  
SFMC-109-L1-S-D-P**



# FLEXIBLE PIN COUNT TIGER EYE™ SOCKET

(1.27 mm) .050" PITCH • SFMC SERIES

MAX  
2.9  
A m p s

8  
G b p s



## SFMC 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.)

SFMC	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	D	OPTIONS
------	---	------------------	------------	----------------	---	---------

02 thru 50

-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 min.)

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

-TR  
= Tape & Reel

-FR  
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

## SPECIFICATIONS

**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"

**Max Cycles:**  
10,000 with 30 μ" (0.76 μm) Au

## 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)

## ALSO AVAILABLE

Other plating (MOQ Required)



-P OPTION





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

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

View complete specifications at: [samtec.com/SFMC](http://samtec.com/SFMC)

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

Click below to explore more details on WIN SOURCE:

-  [View SFMC-109-L1-S-D-P 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