



**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

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
or contact 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)

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality



FILE NO. E111594

ALSO AVAILABLE (MOQ Required)

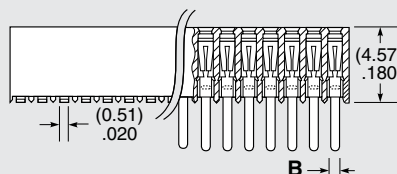
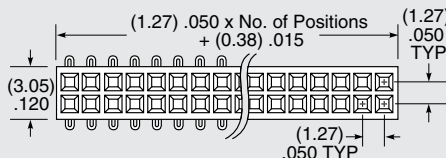
- Other platings

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

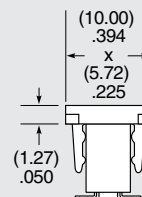
-T2
= Surface Mount
Tiger Eye™ LITE

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

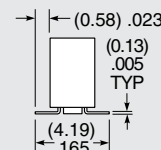
-K
= (4.00 mm) .157
DIA Polyimide
film Pick &
Place Pad
(4 positions
minimum)

-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

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.