



(1,27mm) .050"

SFM, SFML SERIES

SFM-110-02-L-S-A

SFML-125-T2-L-D-LC

SFM-115-02-L-D-A

SFML-115-T2-L-D-LC

SMT TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SFM or www.samtec.com?SFML

Insulator Material:

Black Liquid

Crystal Polymer

Contact Material:

Tiger Eye™ = BeCu

Tiger Eye™ LITE =

Phosphor Bronze

Plating:

Au or Sn over 50μ" (1,27μm) Ni

Voltage Rating:

350 VAC mated with TFM

Operating Temp Range:

-55°C to +125°C

Contact Resistance:

15 mΩ max

Insertion Depth:

(3,05mm) .120" to

(4,06mm) .160"

Wiping Distance:

(0,38mm) .015"

Normal Force:

Standard= 132g (1,29N) avg.;

LIF= 90g (0,88N) avg.

Insertion Force (SFM):

(Single contact only)

Standard= 2.5oz (0,69N) avg.;

LITE= 2.0oz (0,56N) avg.;

LIF= 1.4oz (0,39N) avg.

Withdrawal Force (SFM):

(Single contact only)

Standard= 2.0oz (0,56N) avg.;

LITE= 1.5oz (0,42N) avg.;

LIF= 1.0oz (0,28N) avg.

Insertion Force (SFML):

(Single contact only)

2.5oz (0,69N) avg.

Unmating Force (SFML):

Withdrawal force per contact

(Single contact only)= 1.5oz

(0,42N) average; Incremental

unmating force with friction

locks: 10-20 pins/row (One

Lock) increases withdrawal

force by 4 x average; 25 & 30

pins/row (Two Locks) increases

withdrawal force by 3 x average;

35-50 pins/row (Three Locks)

increases withdrawal force by

1.7 x average

Max Cycles:

10,000 with 30μ" (0,76μm) Au

RoHS Compliant:

Yes

Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10mm) .004" max (05-25)

(0,15mm) .006" max (30-50)

SFM Mates with:
TFM, TFSD, TFSS,
FTS (LIF), FW (LIF),
FTSH (LIF)

SFML Mates with:
TFML, TFSD (-XL option),
TFSDT (-XL option)



High reliability

Tiger Eye™ contacts

(1,27mm x 1,27mm)
.050" x .050"
micro pitch

Locking
feature
increases
unmating
force
(SFML)

SMT tails



10 year Mixed Flowing Gas with 30μ" Gold
1,000 cycles when mated with TFM

APPLICATION SPECIFIC OPTION

Solder nail option for
(2,36mm) .093" thick
board available.
Call Samtec.

Choice of alignment pin
or locking clip options

COST-SAVING APPLICATIONS



Lower cost Phosphor Bronze contact (-T2) for
applications where Beryllium Copper is not needed.
See SFC Series for lower cost plating options.

TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OPTION
SFM = Standard	05, 07, 10, 15, 20, 25, 30, 35, 40, 45, 50 (Call Samtec or see SFMC Series for more sizes)	-02 = Tiger Eye™ Contact	-L = 10μ" (0,25μm) Gold on contact, Matte Tin on tail	-S = Single Row (SFM only)	Specify only -A, -LC, or -SN -A = Alignment Pin	
SFML = Locking (Lead style -T2 only)		-L2 = Low Insertion Force Tiger Eye™ Contact	-S = 30μ" (0,76μm) Gold on contact, Matte Tin on tail	-D = Double Row	-LC = Locking Clip (Manual placement required)	
		-T2 = Tiger Eye™ LITE Contact			-SN = Solder Nail (-S row N/A)	

• Passes 10 Year MFG
• Locking option
• Locking clip option
• Weld tab option
• Solder nail option
for up to 25Gs

SINGLE ROW

DOUBLE ROW

-A OPTION

-LC OPTION

-SN OPTION

-TR OPTION

Note: Other Gold plating
options available.
Contact Samtec.

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

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

WWW.SAMTEC.COM