

samtec



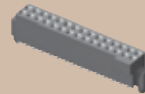
ELP
EXTENDED LIFE PRODUCT
10 Year Mixed Flowing Gas (MFG)
2,500 cycles when mated with TFM

Surface
SMT
Mount

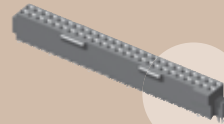
1,27mm TIGER EYE SOCKET

SFM, SFML

SFML-125-T2-S-D-LC



SFML-115-02-S-D-A



SFML-110-T2-S-D-LC

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 over 50µ" (1,27µm) Ni

Current Rating:

2A @ 80°C ambient

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.

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:

Max Processing Temp:

230°C for 60 seconds, or

260°C for 20 seconds 3x

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

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

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

Note: Some sizes, styles and

options are non-standard,

non-returnable.

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

SFML Mates with:
TFML



High reliability
Tiger Eye contacts

Locking feature
increases
unmating
force
(SFML)

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

SMT tails

Choice of alignment pin
or locking clip options

APPLICATION SPECIFIC OPTION

SFM single row
available.
SFML solder nail
option available.
Call Samtec.



Available with optional
Pick & Place pads

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

D

OPTION

SFM
= Standard

SFML
= Locking
(Lead style
-T2 only)

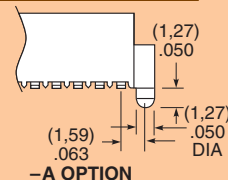
**05, 07, 10,
15, 20, 25, 30,
35, 40, 45, 50**
(Call Samtec or
see SFMC Series
for more sizes)

-02
= Tiger Eye
Contact

-L2
= Low
Insertion Force
Tiger Eye
Contact

-T2
= Tiger Eye
LITE Contact

-S
= 30µ" (0,76µm)
Gold on contact,
Matte Tin on tail



-A OPTION

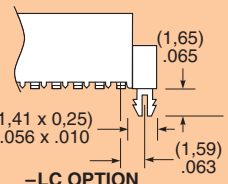
-A
= Alignment Pin
(N/A with -LC or
07 positions)

-LC
= Locking Clip
(N/A with -A)

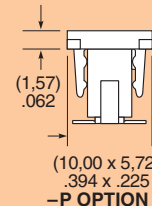
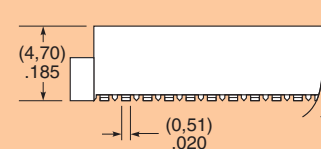
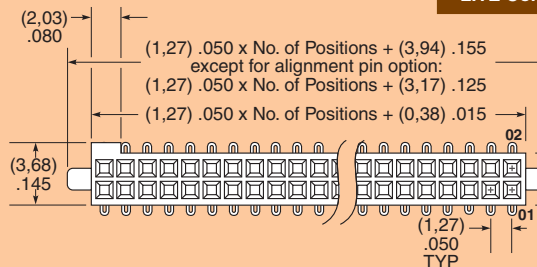
-K
= (4,00mm) .157"
DIA Polyimide film
Pick & Place Pad

-P
= Plastic Pick &
Place Pad

-TR
= Tape & Reel



-LC OPTION



-P OPTION

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

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