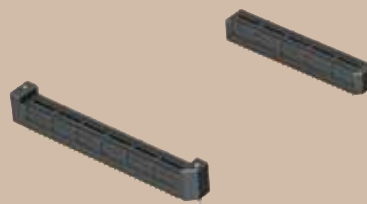


(0,80 mm) .0315"

SEMS-125-02-03.0-H-D

SEML-145-02-03.0-H-D-WT



SEM-130-02-03.0-H-D-WT



SEM-110-02-03.0-H-D-WT

SEM, SEMS, SEML SERIES

# MICRO TIGER EYE™ SOCKET

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?SEM](http://www.samtec.com?SEM), [www.samtec.com?SEMS](http://www.samtec.com?SEMS) or [www.samtec.com?SEML](http://www.samtec.com?SEML)

### Insulator Material:

Black Liquid Crystal Polymer

### Contact Material:

BeCu

### Plating:

Au or Sn over 50µ" (1,27 µm) Ni

### Current Rating (SEM/TEM):

2.6 A per pin

(1 pin powered per row)

### RoHS Compliant:

Yes

### Processing:

Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0,10 mm) .004" max

## RECOGNITIONS

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



FILE NO. E111594

SEM, SEML Mates with:  
TEM

SEMS Mates with:  
TEMS



E.L.P.  
EXTENDED LIFE PRODUCT

10 year Mixed Flowing Gas with 30µ" Gold  
Call Samtec for maximum mated cycles

TEM/SEM 6 mm Stack Height	Rated @ 3dB Insertion Loss*
Single-Ended Signaling	12 GHz / 24 Gbps
Differential Pair Signaling	17 GHz / 34 Gbps

\*Test board losses de-embedded from performance data.

Complete test data available at [www.samtec.com?SEM](http://www.samtec.com?SEM) or  
contact [sig@samtec.com](mailto:sig@samtec.com)

High reliability  
Tiger Eye™ contacts

Choice of  
mated heights



- Passes 10 year MFG
- Locking clip option
- Weld tab option

## ALSO AVAILABLE (MOQ Required)

- Other sizes
  - Other platings
- Contact Samtec.

28+  
Gbps

Weld tab

TYPE STRIP	1	NO. PINS PER ROW	02	STACK HEIGHT	PLATING OPTION	D	OPTION	OTHER OPTION
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### SEM

= Tiger Eye™ Strip

### SEMS

= Tiger Eye™ Slim Strip

### SEML

= Tiger Eye™ Friction Lock

05, 10, 15, 20, 25

30, 35, 40, 45, 50  
(SEM/SEML only)  
(Standard sizes)

### -03.0

= 6 mm, 7 mm or 10 mm  
Stack Height  
when mated with  
TEM/TEMS Series  
(SEML only  
available with  
6 mm Stack Height)

### -FG

= Gold Flash

### -G

= 10µ" (0,25 µm)  
Gold on contact,  
Gold Flash on tail

### -H

= 30µ" (0,76 µm)  
Gold on contact,  
Gold Flash on tail

Leave blank  
for SEMS

### -A

= Alignment Pin  
(Not available  
with -LC or -WT)

### -LC

= Locking Clip  
(Not available  
with -A or -WT)  
(Manual placement  
required)

### -WT

= Weld Tab  
(Not available  
with -A or -LC)  
(Required callout  
for SEML)

### -K

= (3,50 mm) .138" DIA  
Polyimide film Pick &  
Place Pad  
(Required  
for SEMS)

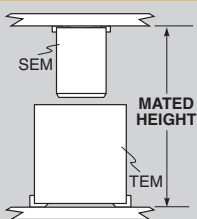
### -TR

= Tape &  
Reel  
(Required  
for SEMS)

## OTHER SOLUTIONS

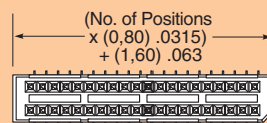
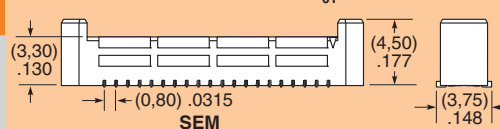
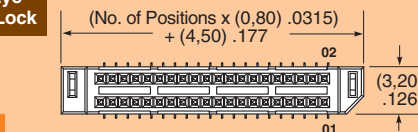
- (1,27 mm) .050" board-to-board and cable-to-board Tiger Eye™ systems available.
  - Board Stacking: See SFM, TFM Series
  - Cable Assemblies: See SFSD, TFSD Series
- Contact Samtec.

## MATED HEIGHT

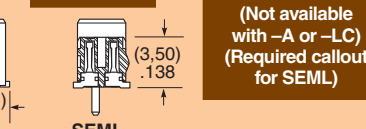


TEM LEAD STYLE	MATED HEIGHT*
-03.0	6 mm
-04.0	7 mm
-07.0	10 mm

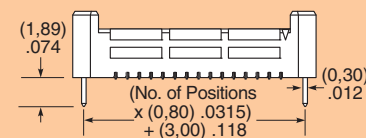
\*Processing conditions will affect mated height.



SEMS



SEML



-WT OPTION

**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](http://WWW.SAMTEC.COM)