



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

(0,80 mm) .0315"

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

### Operating Temp Range:

-55°C to +125°C

### 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:

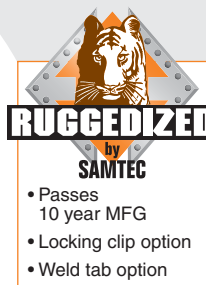
(0,10 mm) .004" max

SEM, SEML Mates with:  
TEMSEMS 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<br>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

High reliability  
Tiger Eye™ contactsChoice 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

## RECOGNITIONS

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



FILE NO. E111594

## OTHER SOLUTIONS

- 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.

| TYPE STRIP                | 1 | NO. PINS PER ROW                                                                | 02 | STACK HEIGHT                                                                                                                   | PLATING OPTION                                                                                                                                                | D | OPTION                                                                                                                                                                                                                                                        | OTHER OPTION                                                                                                                    |
|---------------------------|---|---------------------------------------------------------------------------------|----|--------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|
| SEM<br>= Tiger Eye™ Strip |   | 05, 10, 15, 20, 25<br>30, 35, 40, 45, 50<br>(SEM/SEML only)<br>(Standard sizes) |    | -03.0<br>= 6 mm, 7 mm or 10 mm<br>Stack Height when mated with TEM/TEMS Series<br>(SEML only available with 6 mm Stack Height) | -FG<br>= Gold Flash<br><br>-G<br>= 10µ" (0,25 µm)<br>Gold on contact, Gold Flash on tail<br><br>-H<br>= 30µ" (0,76 µm)<br>Gold on contact, Gold Flash on tail |   | Leave blank for SEMS<br><br>-A<br>= Alignment Pin (Not available with -LC or -WT)<br><br>-LC<br>= Locking Clip (Not available with -A or -WT) (Manual placement required)<br><br>-WT<br>= Weld Tab (Not available with -A or -LC) (Required callout for SEML) | -K<br>= (3,50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)<br><br>-TR<br>= Tape & Reel (Required for SEMS) |

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