

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

50 μ" (1.27 μm) Ni

### Operating Temp Range:

-55 °C to +125 °C

### Current Rating (SEM/TEM):

2.6 A per pin

(2 pins powered)

### Voltage Rating:

235 VAC/330 VDC

### RoHS Compliant:

Yes

SEM, SEML Mates with:

TEM

SEMS Mates with:

TEMS



## POWER/SIGNAL APPLICATION



Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

High-reliability Tiger Eye™ contacts

Choice of mated heights

## RUGGEDIZED BY SAMTEC

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

## HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

8 Gbps

## PROCESSING

### Lead-Free Solderable:

Yes

### SMT Lead Coplanarity:

(0.10 mm) .004" max

## RECOGNITIONS

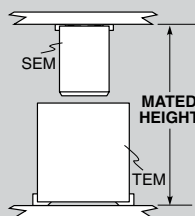
For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



## OTHER SOLUTIONS

- Board Stacking: See SFM, TFM Series
- Cable Assemblies: See SFSD, TFSD Series

## 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 = 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  
= 10 μ" (0.25 μm) Gold on contact, Gold Flash on tail

-H  
= 30 μ" (0.76 μm) Gold on contact, Gold Flash on tail

Leave blank for SEMS

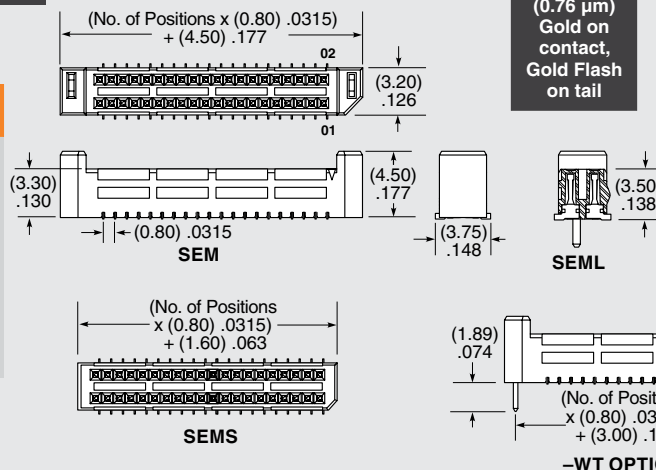
-A  
= Alignment Pin (Not available with -LC or -WT)

-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)



## ALSO AVAILABLE (MOQ Required)

- Other sizes
- Other platings

**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)

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.

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