



(0,80mm) .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" (1,27µm) Ni

**RoHS Compliant:** Yes

CURRENT RATING	
AMBIENT TEMP	TEM/SEM
20°C	3.5A
40°C	3.1A
60°C	2.6A
80°C	2.2A
95°C	1.78A

6 POSITIONS (2x3) POWERED

## Processing:

Lead-Free Solderable:

Yes

SMT Lead Coplanarity:

(0,10mm) .004" max

## ALSO AVAILABLE

- (1,27mm) .050" board-to-board and cable-to-board Tiger Eye™ systems available.
  - Board Stacking: See SFM, TFM Series
  - Cable Assemblies: See SFSD, TFSD Series
  - AccliMate™: See SCP3/SCR3 Series
- Call Samtec.



**Note:** Other Gold plating options available. Contact Samtec.

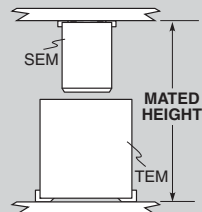
**Note:** Some sizes, styles and options are non-standard, non-returnable.

SEM, SEML Mates with: TEM

SEMS Mates with: TEMS



## MATED HEIGHT

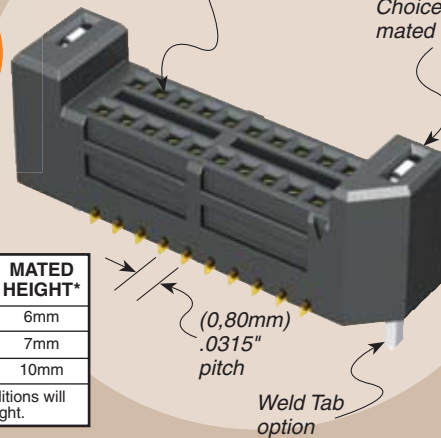


TEM LEAD STYLE	MATED HEIGHT*
-03.0	6mm
-04.0	7mm
-07.0	10mm

\*Processing conditions will affect mated height.

High reliability Tiger Eye™ contacts

Choice of mated heights



TEM/SEM 6mm 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)

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)  
(Call Samtec for other sizes)

**-03.0** = 6mm, 7mm or 10mm Stack Height when mated with TEM/TEMS Series (SEML only available with 6mm Stack Height)

**-FG** = Gold Flash  
**-G** = 10µ" (0,25µm) Gold on contact, Gold Flash on tail  
**-H** = 30µ" (0,76µm) 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** = (3,50mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)  
**-TR** = Tape & Reel (Required for SEMS)

(No. of Positions x (0,80) .0315) + (4,50) .177

(3,20) .126

(3,30) .130

(4,50) .177

(3,75) .148

(3,50) .138

(No. of Positions x (0,80) .0315) + (1,60) .063

(1,89) .074

(0,30) .012

(No. of Positions x (0,80) .0315) + (3,00) .118

**-WT OPTION**

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

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