



(0,80mm) .0315"

SEM, SEMS, SEML SERIES

MICRO TIGER EYE™ SOCKET

SPECIFICATIONS

For complete specifications and recommended PCB layouts see www.samtec.com?SEM, www.samtec.com?SEMS or 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

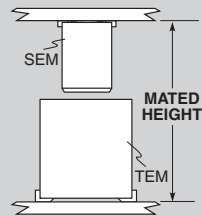
- (1,27mm) .050" board-to-board and cable-to-board Tiger Eye™ systems available.
- Board Stacking: See SFM, TFM Series
- Cable Assemblies: See SFSD, TFSD Series
- AccliMate™: See SCP3/SCR3 Series
- Call Samtec.

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.

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

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

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

High reliability
Tiger Eye™ contacts

Choice of
mated heights

(0,80mm)
.0315"
pitch

Weld Tab
option



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

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 or contact 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

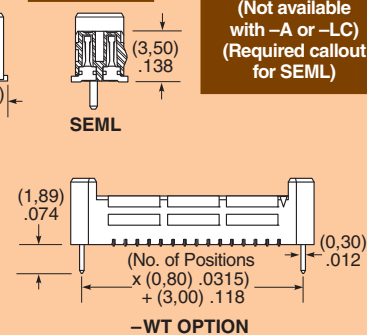
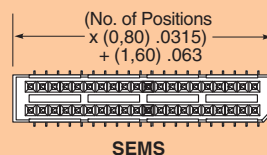
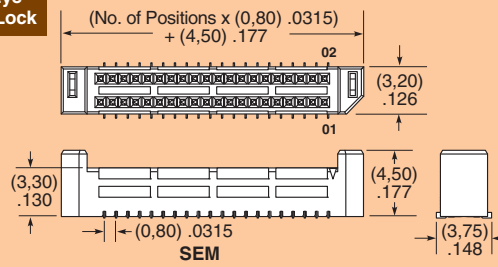
-A
= Alignment Pin
(Not available
with -LC or -WT)

-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)



-WT OPTION



Note: Other Gold plating options available. Contact Samtec.

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.

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