



(0,80 mm) .0315"

SEM, SEMS, SEML SERIES

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

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" (1,27 µm) Ni

RoHS Compliant:

Yes

SEM, SEML Mates with: TEM

SEMS Mates with: TEMS

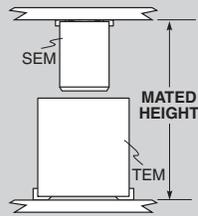


High reliability Tiger Eye™ contacts

Choice of mated heights

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

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.



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 or contact_sig@samtec.com

CURRENT RATING (PER CONTACT)	
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: (0,10 mm) .004" max

ALSO AVAILABLE

- (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
Call Samtec.

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

<p>SEM = Tiger Eye™ Strip</p> <p>SEMS = Tiger Eye™ Slim Strip</p> <p>SEML = Tiger Eye™ Friction Lock</p>	<p>05, 10, 15, 20, 25 30, 35, 40, 45, 50 (SEM/SEML only) (Call Samtec for other sizes)</p>	<p>-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)</p>	<p>-FG = Gold Flash</p> <p>-G = 10µ" (0,25 µm) Gold on contact, Gold Flash on tail</p> <p>-H = 30µ" (0,76 µm) Gold on contact, Gold Flash on tail</p>	<p>Leave blank for SEMS</p> <p>-A = Alignment Pin (Not available with -LC or -WT)</p> <p>-LC = Locking Clip (Not available with -A or -WT) (Manual placement required)</p> <p>-WT = Weld Tab (Not available with -A or -LC) (Required callout for SEML)</p>	<p>-K = (3,50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)</p> <p>-TR = Tape & Reel (Required for SEMS)</p>
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SEM

SEML

SEMS

-WT OPTION

ELP
EXTENDED LIFE PRODUCT

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

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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