



(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

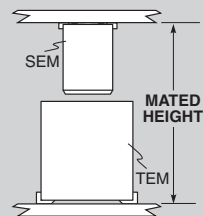
- (1,27mm) .050" board-to-board and cable-to-board Tiger Eye™ systems available.
- Board Stacking: See SFM, TFM Series
- Cable Assemblies: See SFSD, TFSD Series
- AccliMate™: See SCP3/SCR3 Series
- Call Samtec.

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

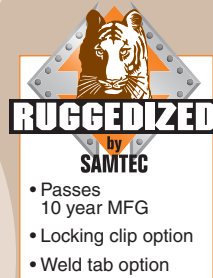
SEML-145-02-03.0-H-D-WT

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	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)

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

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

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

-WT OPTION: (No. of Positions x (0,80) .0315) + (3,00) .118



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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