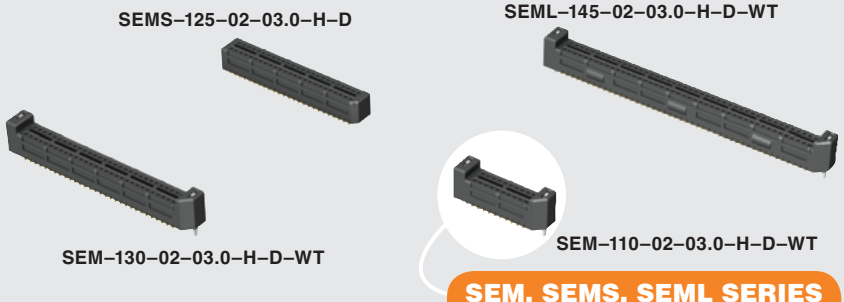
samtec

TIGER EYE SYSTEM™



(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, 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
Operating Temp Range:
-55°C to +125°C
Current Rating (SEM/TEM):
2.6 A per pin
(1 pin powered per row)
RoHS Compliant:
Yes

Processing:

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0,10 mm) .004" max

RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

OTHER SOLUTIONS

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

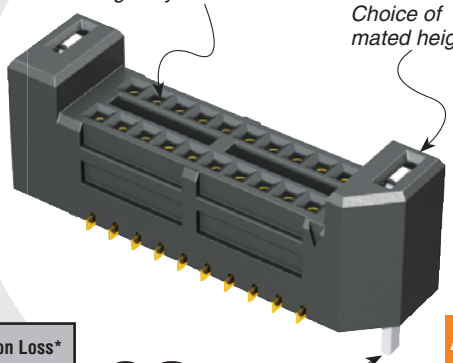
Contact Samtec.

SEM, SEML Mates with:
TEM

SEMS Mates with:
TEMS

TIGER EYE CONTACT™

E.L.P.™
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles



RUGGEDIZED by SAMTEC
- Passes 10 year MFG
- Locking clip option
- Weld tab option

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

28+ Gbps

ALSO AVAILABLE
(MOQ Required)
- Other sizes
- Other platings

Contact Samtec.

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)

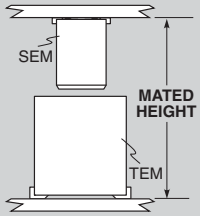
–03.0 = 6 mm, 7 mm or 10 mm Stack Height when mated with TEM/TEMS Series (SEML only available with 6 mm Stack Height)

–FG = Gold Flash
–G = 10µ" (0,25 µm) Gold on contact, Gold Flash on tail
–H = 30µ" (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)

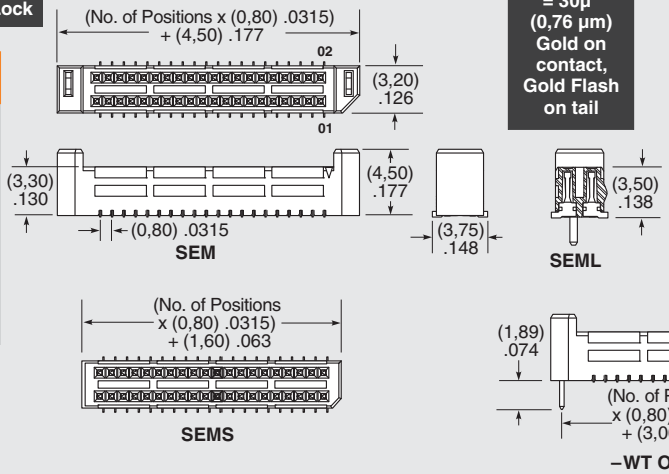
–K = (3,50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)
–TR = Tape & Reel (Required for SEMS)

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.



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.