samtec

TIGER EYE™ SYSTEM

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

(0.80 mm) .0315"

MICRO TIGER EYE™ SOCKET

SEM, SEMS, SEML SERIES

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
50 µ" (1.27 µm) Ni
Operating Temp Range:
-55 °C to +125 °C
Current Rating (SEM/TEM):
2.6 A per pin
(2 pins powered)
Voltage Rating:
235 VAC/330 VDC
RoHS Compliant:
Yes

PROCESSING

Lead-Free Solderable:
Yes
SMT Lead Coplanarity:
(0.10 mm) .004" max

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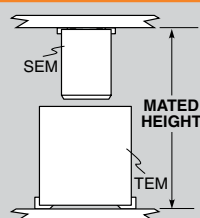
For complete scope of recognitions see www.samtec.com/quality

UL FILE NO. E111594

OTHER SOLUTIONS

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

SEM, SEML Mates with:
TEM

SEMS Mates with:
TEMS

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

POWER/SIGNAL APPLICATION

Compatible with UMPT/UMPS for flexible two-piece power/signal solutions

High-reliability Tiger Eye™ contacts

Choice of mated heights

TIGER EYE™ CONTACT

Weld tab

RUGGEDIZED — BY SAMTEC —

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

HIGH-SPEED CHANNEL PERFORMANCE

Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com

8 Gbps

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** = 10 µ" (0.25 µm) Gold on contact, Gold Flash on tail **–H** = 30 µ" (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

SEM

MATED HEIGHT

TEM

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

*Processing conditions will affect mated height.

(No. of Positions x (0.80) .0315) + (4.50) .177

02

01

(3.20) .126

(3.30) .130

(4.50) .177

(0.80) .0315

SEM

(3.75) .148

(3.50) .138

SEML

(No. of Positions x (0.80) .0315) + (1.60) .063

SEMS

(1.89) .074

(No. of Positions x (0.80) .0315) + (3.00) .118

(0.30) .012

–WT OPTION

ALSO AVAILABLE (MOQ Required)

• Other sizes
• Other platings

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