TIGER™ EYE SYSTEM

RUGGED TIGER EYE™ SYSTEMS

(0.80 mm) .0315" PITCH



FEATURES & BENEFITS

MAX 2.9 Amps | 8 Gbps | TIGER™ EYE CONTACT



- High-reliability, multi-finger BeCu contact
- Micro pitch and slim body for space savings
- 6 mm, 7 mm and 10 mm stack heights
- Locking clip, alignment pins and weld tab ruggedizing features
- Rugged latching system for increased withdrawal force
- Vertical and right-angle mating headers
- Discrete wire assembly available with 32 AWG *Teflon™ Fluoropolymer (See page 241). Contact asp@samtec.com for custom solutions.
- Extended Life Product™ testing available

*Teflon™ is a trademark of The Chemours Company FC, LLC used under license by Samtec.



Locking for increased unmating force (Visit samtec.com?SEML for more information)



Components (ISDE/CC396) and tooling available: samtec.com/tooling

KEY SPECIFICATIONS (SEM/TEM)

STACK HEIGHTS	INSULATOR MATERIAL	CONTACT MATERIAL	PLATING	OPERATING TEMP RANGE	CURRENT RATING	MAX. CYCLES	VOLTAGE RATING	LEAD-FREE SOLDERABLE
6 - 10 mm	Black LCP	BeCu (SEM) Phosphor Bronze (TEM)	Au or Sn over 50 µ" (1.27 µm) Ni	-55 °C to +125 °C	2.9 A per pin (2 pins powered)	100 with 10 µ" (0.25 µm) Au	235 VAC/330 VDC	Yes

Unless otherwise approved in writing by Samtec, all parts and components are designed and built according to Samtec's specifications which are subject to change without notice.

TIGER™ EYE SYSTEM

samtec

(0.80 mm) .0315" PITCH • MICRO TIGER EYE™ SOCKET AND HEADER

SERIES	–	1	NO. PINS PER ROW	–	02	STACK HEIGHT	–	PLATING OPTION	–	D	–	OPTIONS	–	OTHER OPTIONS

SEM
Socket

SEMS
Slim Socket

TEM
Header

TEMS
Slim Header

05, 10, 15, 20, 25
(SEM, SEMS, TEM, TEMS only)

30, 35, 40, 45, 50
(SEM/TEM only)
(Standard sizes)

–03.0
= 6 mm Stack Height (–03.0 required for SEM/SEMS Series)

–04.0
= 7 mm Stack Height (TEM/TEMS only)

–07.0
= 10 mm Stack Height (TEM/TEMS only)

–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/TEMS

–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)

–K
= (3.50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)

= (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (Required for TEMS)

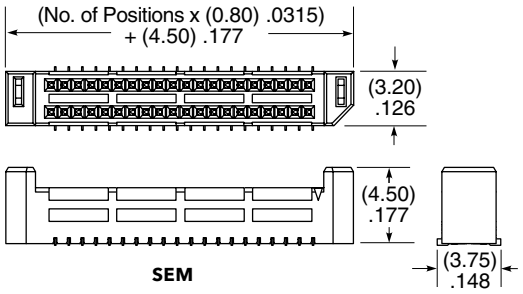
–TR
= Tape & Reel

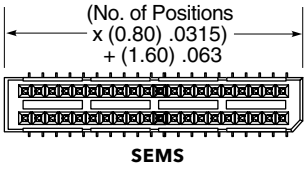
–FR
= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks)

SEM
Board Mates: TEM

SEMS
Board Mates: TEMS





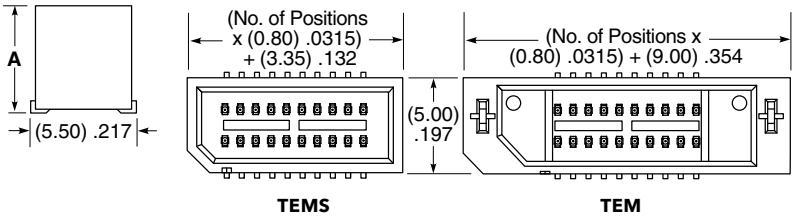


View complete specifications at: **samtec.com?SEM** & **samtec.com?SEMS**

TEM
Board Mates: SEM, SEML

TEMS
Board Mates: SEMS

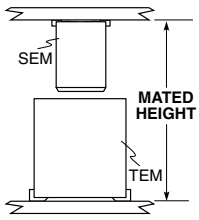




MATED HEIGHTS

STACK HEIGHT	A	MATED HEIGHT*
-03.0	(5.610) .2209	6 mm
-04.0	(6.610) .2602	7 mm
-07.0	(9.610) .3783	10 mm

*Processing conditions will affect mated height.



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

View complete specifications at: **samtec.com?TEM** & **samtec.com?TEMS**

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