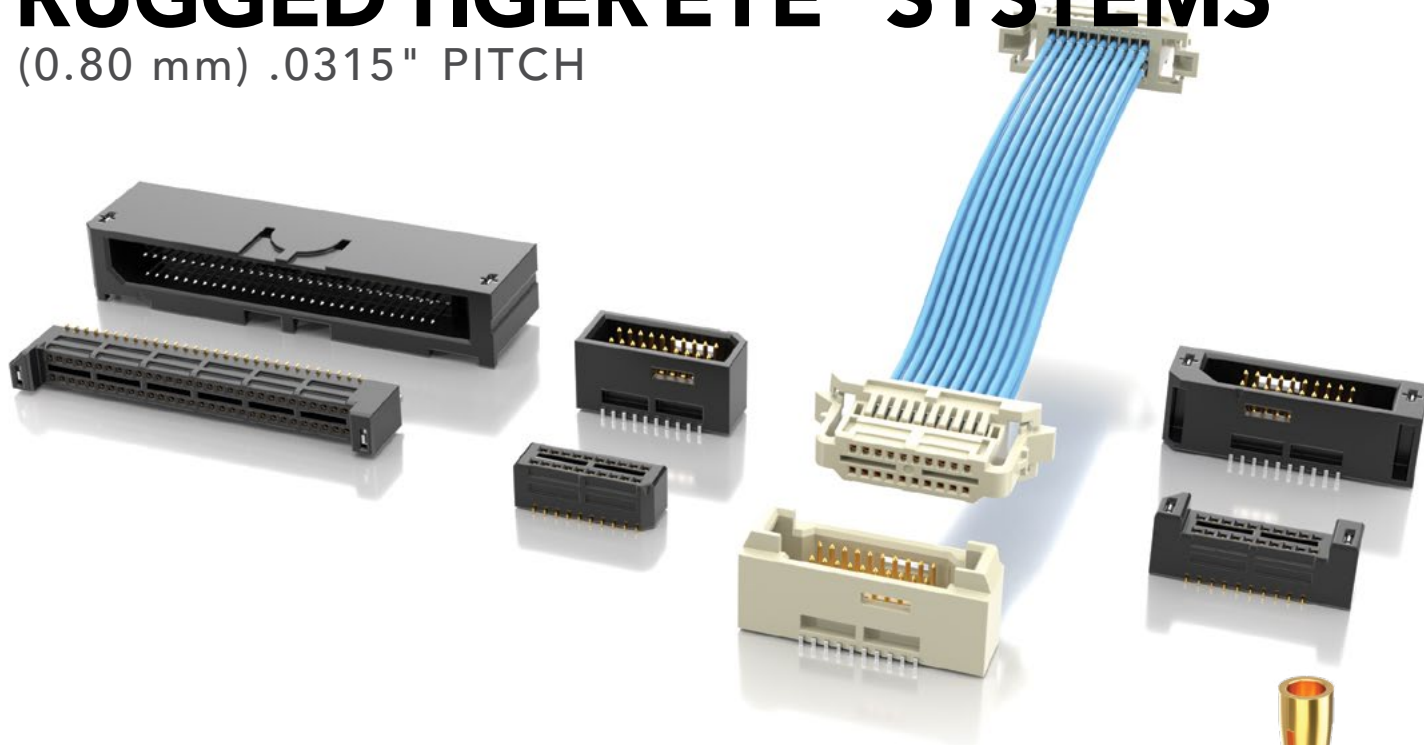


# RUGGED TIGER EYE™ SYSTEMS

(0.80 mm) .0315" PITCH



## FEATURES & BENEFITS

- 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](mailto: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.

MAX  
2.9  
A m p s

8  
G b p s

**TIGER™  
EYE**  
CONTACT



Locking for increased  
unmating force  
(Visit [samtec.com?SEML](http://samtec.com?SEML)  
for more information)



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

## KEY SPECIFICATIONS (SEM/TEM)

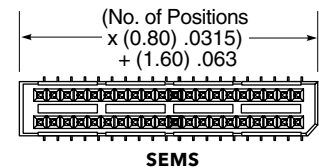
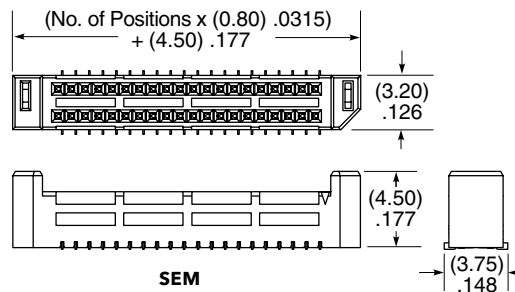
| STACK HEIGHTS | INSULATOR MATERIAL | CONTACT MATERIAL                    | PLATING                             | OPERATING TEMP RANGE | CURRENT RATING                    | MAX. CYCLES                 | VOLTAGE RATING  | LEAD-FREE SOLDERABLE |
|---------------|--------------------|-------------------------------------|-------------------------------------|-----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

**(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                                                                                                 |
|----------------------------|---|--------------------------------------------------------------|----|--------------------------------------------------------------------------------|--------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| <b>SEM</b><br>Socket       |   | <b>05, 10, 15, 20, 25</b><br>(SEM, SEMS, TEM, TEMS only)     |    | <b>-03.0</b><br>= 6 mm<br>Stack Height<br>(-03.0 required for SEM/SEMS Series) | <b>-FG</b><br>= Gold Flash                                               |   | Leave blank for SEMS/TEMS                                                               | <b>-K</b><br>= (3.50 mm) .138" DIA Polyimide film Pick & Place Pad (Required for SEMS)                        |
| <b>SEMS</b><br>Slim Socket |   | <b>30, 35, 40, 45, 50</b><br>(SEM/TEM only) (Standard sizes) |    | <b>-04.0</b><br>= 7 mm<br>Stack Height<br>(TEM/TEMS only)                      | <b>-G</b><br>= 10 μ"<br>(0.25 μm)<br>Gold on contact, Gold Flash on tail |   | <b>-A</b><br>= Alignment Pin (Not available with -LC or -WT)                            | = (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (Required for TEMS)                                     |
| <b>TEM</b><br>Header       |   |                                                              |    | <b>-07.0</b><br>= 10 mm<br>Stack Height<br>(TEM/TEMS only)                     | <b>-H</b><br>= 30 μ"<br>(0.76 μm)<br>Gold on contact, Gold Flash on tail |   | <b>-LC</b><br>= Locking Clip (Not available with -A or -WT) (Manual placement required) | <b>-TR</b><br>= Tape & Reel                                                                                   |
| <b>TEMS</b><br>Slim Header |   |                                                              |    |                                                                                |                                                                          |   | <b>-WT</b><br>= Weld Tab (Not available with -A or -LC)                                 | <b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) |

**SEM**  
Board Mates:  
TEM

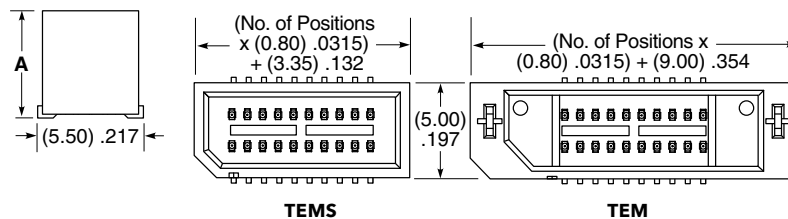
**SEMS**  
Board Mates:  
TEMS



View complete specifications at: [samtec.com?SEM](http://samtec.com?SEM) & [samtec.com?SEMS](http://samtec.com?SEMS)

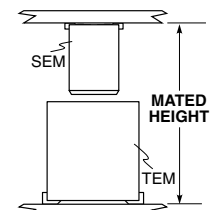
**TEM**  
Board Mates:  
SEM, SEML

**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](http://samtec.com?TEM) & [samtec.com?TEMS](http://samtec.com?TEMS)