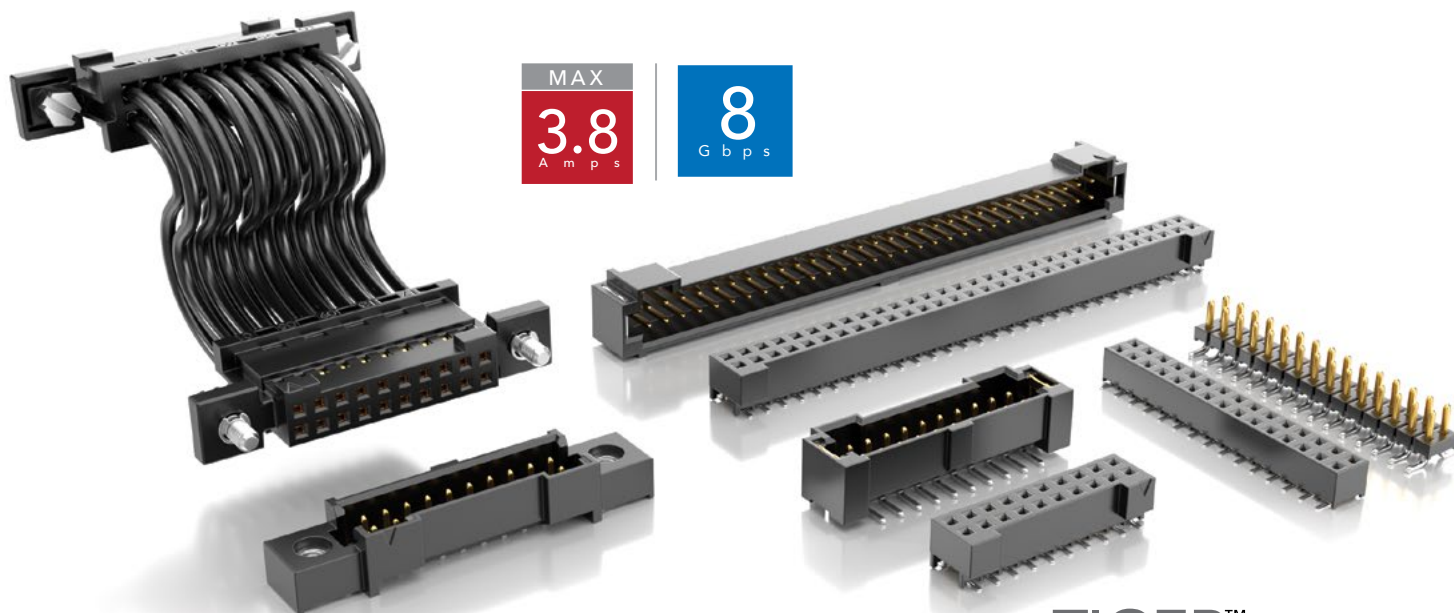


# RUGGED TIGER EYE™ SYSTEMS

(2.00 mm) .0787" PITCH



## FEATURES & BENEFITS

- Rugged Tiger Eye™ contact system for high reliability
- Wide range of stack heights (SMM/TMM Series)
- Right-angle mating headers available
- Optional metal latching, screw downs, weld tabs and locking clips
- Surface mount or through-hole
- Discrete wire assemblies available in 24-30 AWG PVC or \*Teflon™ Fluoropolymer (See page 240). Contact [asp@samtec.com](mailto:asp@samtec.com) for custom solutions
- Severe Environment Testing qualified (S2M/T2M); aligns with MIL-DTL-55302. Visit [samtec.com/set](http://samtec.com/set)

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



Optional strain relief and variety of wiring options



Components (ISD2/CC81) & tooling available: [samtec.com/tooling](http://samtec.com/tooling)

## KEY SPECIFICATIONS (S2M/T2M)

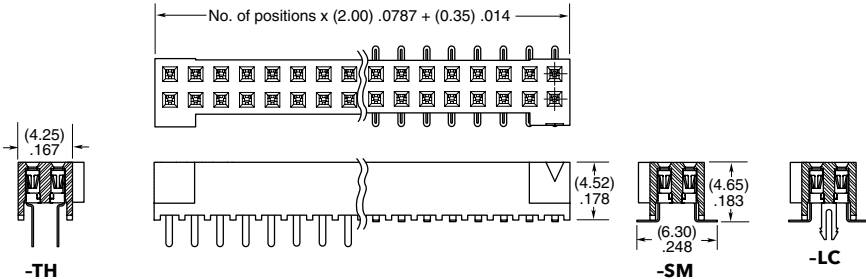
| STACK HEIGHTS | INSULATOR MATERIAL | CONTACT MATERIAL                    | PLATING                             | OPERATING TEMP RANGE | CURRENT RATING                                 | MAX. CYCLES                 | VOLTAGE RATING | LEAD-FREE SOLDERABLE |
|---------------|--------------------|-------------------------------------|-------------------------------------|----------------------|------------------------------------------------|-----------------------------|----------------|----------------------|
| 6 & 7 mm      | Black LCP          | BeCu (S2M)<br>Phosphor Bronze (T2M) | Au or Sn over<br>50 μ" (1.27 μm) Ni | -55 °C to +125 °C    | 3.8 A (T2M)<br>2.6 A (S2M)<br>(2 pins powered) | 100 with 10 μ" (0.25 μm) Au | 350 VAC        | Yes                  |

**(2.00 mm) .0787" PITCH • HIGH-RELIABILITY CABLE INTERCONNECTS**

| SERIES               | 1 | NO. OF POSITIONS                                   | LEAD STYLE                                                    | PLATING OPTION                                                                                                               | D | OPTIONS                                                                                                                                                                                                                | PACKAGING                                                                                                                                                                                            |
|----------------------|---|----------------------------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|---|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>S2M</b><br>Socket |   | <b>05, 07, 10,<br/>15, 20, 25, 30</b><br>(Per Row) | <b>-01</b><br>= Through-hole<br><b>-02</b><br>= Surface Mount | <b>-F</b><br>= Gold flash on contact, Matte Tin on tail<br><b>-L</b><br>= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail |   | <b>-K</b><br>= (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (-02 only)<br><b>-LC</b><br>= Locking Clip (Manual placement required) (-02 only)<br><b>-DS</b><br>= Screw Down (N/A with -LC) (mates with -T2M-DS) | Leave blank for tube packaging<br><b>-TR</b><br>= Tape & Reel (-02 only)<br><b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-02 only) |

**S2M**  
Board Mates:  
T2M  
Cable Mates:  
T2SD



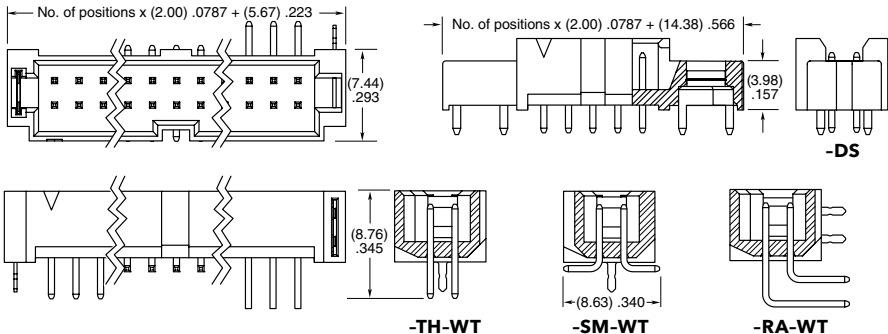


View complete specifications at: [samtec.com?S2M](http://samtec.com?S2M)

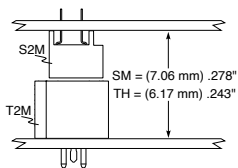
| SERIES               | 1 | NO. OF POSITIONS                                   | 01 | PLATING OPTION                                                    | D | TAIL OPTION                                                                                  | OTHER OPTIONS                                                                                                                                                                                                                                | PACKAGING                                                                                                                                                                                            |
|----------------------|---|----------------------------------------------------|----|-------------------------------------------------------------------|---|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>T2M</b><br>Header |   | <b>05, 07, 10,<br/>15, 20, 25, 30</b><br>(Per Row) |    | <b>-L</b><br>= 10 μ" (0.25 μm) Gold on contact, Matte Tin on tail |   | <b>-TH</b><br>= Through-hole<br><b>-RA</b><br>= Right-angle<br><b>-SM</b><br>= Surface Mount | <b>-WT</b><br>= Weld Tab (S2SD & S2SDT, -SR/-DR required mate)<br><b>-DS</b><br>= Screw Down (N/A with -RA) (mates with -S2M-DS, S2SD/S2SDT -SS/-DS option)<br><b>-K</b><br>= (7.50 mm) .295" DIA Polyimide film Pick & Place Pad (-SM only) | Leave blank for tube packaging<br><b>-TR</b><br>= Tape & Reel (-SM only)<br><b>-FR</b><br>= Full Reel Tape & Reel (must order max. quantity per reel; contact Samtec for quantity breaks) (-SM only) |

**T2M**  
Board Mates:  
S2M  
Cable Mates:  
S2SD, S2SDT





**MATED HEIGHT**



**Notes:**  
Severe Environment Testing qualified; aligns with MIL-DTL-55302.  
Visit [samtec.com/set](http://samtec.com/set)

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

View complete specifications at: [samtec.com?T2M](http://samtec.com?T2M)