



**TIGER  
EYE**  
SYSTEM

TEMS-125-02-03.0-H-D

TEM-145-02-07.0-H-D-WT

TEM-120-02-DH1-S-D-A

TEM-110-02-DH1-S-D-A

(0.80 mm) .0315"

TEM, TEMS, TEM-DH SERIES

# MICRO TIGER EYE™ HEADER

TEM, TEM-DH Mates with:

SEM, SEML

TEMS Mates with:

SEMS

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?TEM](http://www.samtec.com?TEM) or [www.samtec.com?TEMS](http://www.samtec.com?TEMS)

**Insulator Material:**

Black Liquid Crystal Polymer

**Terminal Material:**

Phosphor Bronze

**Plating:**

Au or Sn over

50 μ" (1.27 μm) Ni

**Current Rating:**

2.9 A per pin

(2 pins powered)

**Voltage Rating:**

235 VAC/330 VDC

**Operating Temp Range:**

-55 °C to +125 °C

**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](http://www.samtec.com/quality)



FILE NO. E111594

## OTHER SOLUTIONS

- Latching option: See TEM-L1 in Discrete Wire Cable section.
- Board Stacking: See SFM, TFM Series
- Cable Assemblies: See SFSD, TFSD, SESDT Series

## ALSO AVAILABLE (MOQ Required)

- Other sizes
- Other platings

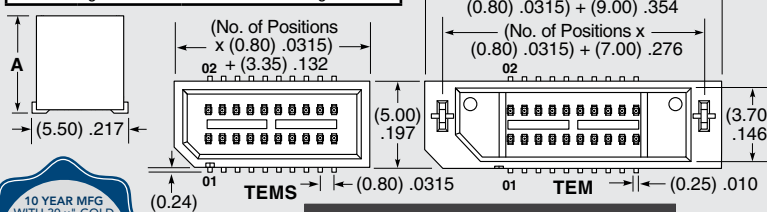
**Note:**

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

| TYPE STRIP                      | 1 | NO. OF POSITIONS                                                  | 02 | STACK HEIGHT                     | PLATING OPTION                                                    | D | OPTION                                                                                 | OTHER OPTION                                                                    |
|---------------------------------|---|-------------------------------------------------------------------|----|----------------------------------|-------------------------------------------------------------------|---|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| TEM<br>= Tiger Eye™ Strip       |   | 05, 10, 15, 20, 25<br>(Per Row)                                   |    | -03.0<br>= 6 mm<br>Stack Height  | -FG<br>= Gold Flash                                               |   | Leave blank for TEMS                                                                   | -K<br>= (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (Required for TEMS) |
| TEMS<br>= Tiger Eye™ Slim Strip |   | 30, 35, 40, 45, 50<br>(Per Row)<br>(TEM only)<br>(Standard sizes) |    | -04.0<br>= 7 mm<br>Stack Height  | -G<br>= 10 μ" (0.25 μm)<br>Gold on contact,<br>Gold Flash on tail |   | -A<br>= Alignment Pin<br>(Not available with -LC or -WT)                               | -TR<br>= Tape & Reel<br>(Required for TEMS)                                     |
|                                 |   |                                                                   |    | -07.0<br>= 10 mm<br>Stack Height | -H<br>= 30 μ" (0.76 μm)<br>Gold on contact,<br>Gold Flash on tail |   | -LC<br>= Locking Clip<br>(Not available with -A or -WT)<br>(Manual placement required) |                                                                                 |
|                                 |   |                                                                   |    |                                  |                                                                   |   | -WT<br>= Weld Tab<br>(Not available with -A or -LC)                                    |                                                                                 |

| STACK HEIGHT | A             | MATED HEIGHT*<br>(WHEN MATED WITH SEM/SEMS) |
|--------------|---------------|---------------------------------------------|
| -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.



## HIGH-SPEED CHANNEL PERFORMANCE

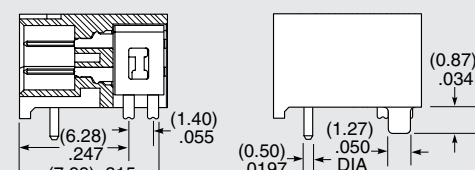
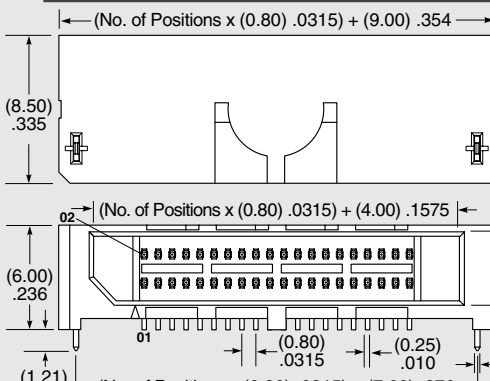
Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

8  
Gbps

## POWER/SIGNAL APPLICATION



| TEM | 1 | NO. OF POSITIONS                                                    | 02 | DH1 | PLATING OPTION                                                | D | OPTION                |
|-----|---|---------------------------------------------------------------------|----|-----|---------------------------------------------------------------|---|-----------------------|
|     |   | 10, 15, 20, 25, 30, 35, 40, 45, 50<br>(Per Row)<br>(Standard sizes) |    |     | -F<br>= Gold Flash on contact, Matte Tin on tail              |   | -A<br>= Alignment Pin |
|     |   |                                                                     |    |     | -L<br>= 10 μ" (0.25 μm) Gold on contact,<br>Matte Tin on tail |   |                       |
|     |   |                                                                     |    |     | -S<br>= 30 μ" (0.76 μm) Gold on contact,<br>Matte Tin on tail |   |                       |



Due to technical progress, all designs, specifications and components are subject to change without notice.

[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

All parts within this catalog are built to Samtec's specifications.

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.