



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 μm (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. E11594

## 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)

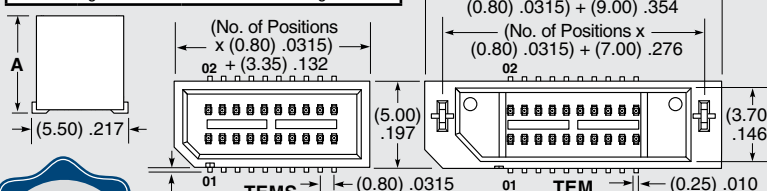
- Other sizes
- Other platings

**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 = Tiger Eye™ Strip		05, 10, 15, 20, 25 (Per Row)		-03.0 = 6 mm Stack Height	-FG = Gold Flash		-A = Alignment Pin (Not available with -LC or -WT)	-K = (5.50 mm) .217" DIA Polyimide film Pick & Place Pad (Required for TEMS)
TEMS = Tiger Eye™ Slim Strip		30, 35, 40, 45, 50 (Per Row) (TEM only) (Standard sizes)		-04.0 = 7 mm Stack Height	-G = 10 μm (0.25 μm) Gold on contact, Gold Flash on tail		-LC = Locking Clip (Not available with -A or -WT) (Manual placement required)	-TR = Tape & Reel (Required for TEMS)
				-07.0 = 10 mm Stack Height	-H = 30 μm (0.76 μm) Gold on contact, Gold Flash on tail		-WT = Weld Tab (Not available with -A or -LC)	

STACK HEIGHT	A	MATED HEIGHT* (WHEN MATED WITH SEM/SEMS)
-03.0	(6.610) .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 (Per Row) (Standard sizes)			-F = Gold Flash on contact, Matte Tin on tail		-A = Alignment Pin
					-L = 10 μm (0.25 μm) Gold on contact, Matte Tin on tail		
					-S = 30 μm (0.76 μm) Gold on contact, Matte Tin on tail		

DH1: (No. of Positions x (0.80) .0315) + (9.00) .354

DH1: (8.50) .335

DH1: (6.00) .236

DH1: (1.21) .048

DH1: (No. of Positions x (0.80) .0315) + (4.00) .1575

DH1: (0.80) .0315

DH1: (0.25) .010

DH1: (0.30) .012

DH1: (No. of Positions x (0.80) .0315) + (7.00) .276

DH1: (3.70) .146

DH1: (6.28) .247

DH1: (7.99) .315

DH1: (1.40) .055

DH1: (0.87) .034

DH1: (1.27) .050 DIA

DH1: (0.50) .0197

DH1: -A OPTION

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.