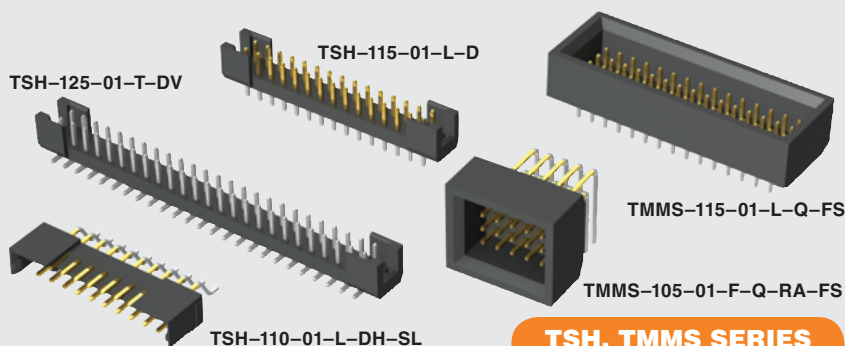




(2,00 mm) .0787"

TSH, TMMS SERIES

# SHROUDED HEADERS

## Mates with:

CLT, SQT, SQW, ESQT,  
TLE, SMM, MMS, PTF

## SPECIFICATIONS

For complete specifications and  
recommended PCB layouts  
see [www.samtec.com?TSH](http://www.samtec.com?TSH)**Insulator Material:**  
Black Liquid Crystal Polymer  
**Terminal Material:**  
Phosphor Bronze**Plating:**  
Sn or Au over  
50µ" (1,27 µm) Ni**Operating Temp Range:**  
-55°C to +105°C with Tin;  
-55°C to +125°C with Gold  
**RoHS Compliant:** Yes

## Processing:

**Lead-Free Solderable:** Yes  
**SMT Lead Coplanarity:**  
(0,15 mm) .006" max

## RECOGNITIONS

For complete scope of  
recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)

FILE NO. E111594

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

| TSH                                                                                    | 1 | NO. PINS<br>PER ROW | 01                                                                                                                                            | PLATING<br>OPTION | ROW<br>OPTION | OTHER<br>OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|----------------------------------------------------------------------------------------|---|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 05, 10, 15, 20, 25,<br>30, 35, 40, 45<br>(40 & 45 = -D & -RA only)<br>(Standard sizes) |   |                     | -F<br>= Gold flash on post,<br>Matte Tin on tail<br><br>-L<br>= 10µ" (0,25 µm)<br>Gold on post,<br>Matte Tin on tail<br><br>-T<br>= Matte Tin |                   |               | -D<br>= Vertical<br>Through-Hole<br><br>-DV<br>= Vertical<br>Surface Mount<br><br>-RA<br>= Right Angle<br>Through-Hole<br><br>-DH<br>= Horizontal<br>Surface Mount<br><br>-LC<br>= Locking Clip<br>(-DV only) (N/A with -A)<br>(Manual placement<br>required)<br><br>-A<br>= Alignment Pin<br>(-DV only) (N/A with -LC)<br><br>-SL<br>= Solder Locks (-DH only)<br><br>-K<br>= (4,50 mm) .177" DIA<br>Polyimide Film<br>Pick & Place Pad<br>(N/A with 15 - 30 positions)<br>(-DH only)<br><br>-M<br>= Metal Pick & Place Pad<br>(-DV only) (N/A -T plating)<br><br>-TR<br>= Tape & Reel |
|                                                                                        |   |                     |                                                                                                                                               |                   |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| ALSO AVAILABLE<br>(MOQ Required)                                                       |   |                     |                                                                                                                                               |                   |               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |

## ALSO AVAILABLE (MOQ Required)

- Other sizes and platings  
Contact Samtec.

## Mates with:

SQT, SQW, ESQT

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?TMMS](http://www.samtec.com?TMMS)**Insulator Material:**  
Black LCP  
**Terminal Material:**  
Phosphor Bronze  
**Plating:**  
Sn or Au over  
50µ" (1,27 µm) Ni**Operating Temp Range:**  
-55°C to +105°C with Tin;  
-55°C to +125°C with Gold  
**RoHS Compliant:**  
Yes**Lead-Free Solderable:** Yes

## RECOGNITIONS

For complete scope of  
recognitions see  
[www.samtec.com/quality](http://www.samtec.com/quality)

FILE NO. E111594

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

| TMMS                                       | 1 | NO. PINS<br>PER ROW | 01                                                                                                                   | PLATING<br>OPTION | Q | OPTION               | FS |
|--------------------------------------------|---|---------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|---|----------------------|----|
| 4 ROW<br><br>05, 10, 15, 20,<br>30, 40, 50 |   |                     | -F<br>= Gold flash on post,<br>Matte Tin on tail<br><br>-L<br>= 10µ" (0,25 µm)<br>Gold on post,<br>Matte Tin on tail |                   |   | -RA<br>= Right Angle |    |
|                                            |   |                     |                                                                                                                      |                   |   |                      |    |