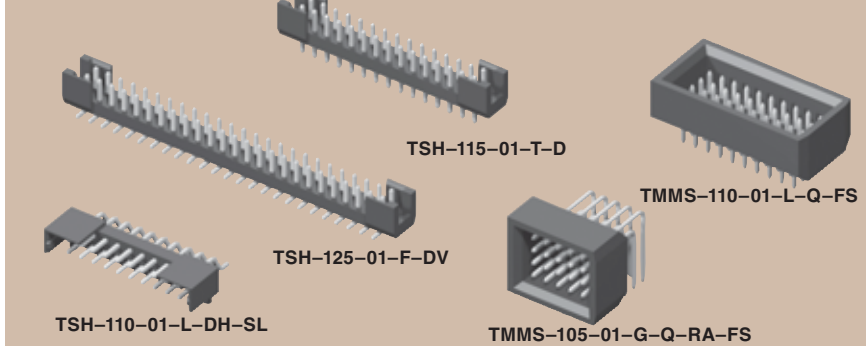


(2,00mm) .0787"

TSH, TMMS SERIES



# SHROUDED HEADERS

## 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" (1,27µm) Ni

**Current Rating:** 3A @ 80°C ambient

**Operating Temp Range:** -55°C to +105°C with Tin; -55°C to +125°C with Gold

**RoHS Compliant:** Yes

### Processing:

**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x

**Lead-Free Solderable:** Yes

**SMT Lead Coplanarity:** (0,15mm) .006" max

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

|   |          |                         |   |                       |  |  |   |
|---|----------|-------------------------|---|-----------------------|--|--|---|
| <b>TSH</b>  | <b>1</b> | <b>NO. PINS PER ROW</b> | <b>01</b>   | <b>PLATING OPTION</b> | <b>ROW OPTION</b>  | <b>OTHER OPTION</b>  |   |
| <b>Mates with:</b><br>CLT, SQT, SQW, ESQT, TLE, SMM, MMS, PTF |          |                         | <b>05, 10, 15, 20, 25, 30, 35, 40, 45</b><br>(40 & 45 = -D & -D-RA only)<br>(Call Samtec for other sizes) |                       | <b>-F</b><br>= Gold flash on post, Matte Tin on tail<br><br><b>-L</b><br>= 10µ" (0,25µm) Gold on post, Matte Tin on tail<br><br><b>-T</b><br>= Matte Tin | <b>-D</b><br>= Vertical Through-Hole<br><br><b>-DV</b><br>= Vertical Surface Mount<br><br><b>-RA</b><br>= Right Angle Through-Hole<br><br><b>-DH</b><br>= Horizontal Surface Mount | <b>-LC</b><br>= Locking Clip (-DV only) (N/A with -A)<br><br><b>-A</b><br>= Alignment Pin (-DV only) (N/A with -LC)<br><br><b>-SL</b><br>= Solder Locks (-DH only)<br><br><b>-K</b><br>= (4.50mm) .177" DIA Polyimide Film Pick & Place Pad (Not available on 15 - 30 positions) (-DH only)<br><br><b>-M</b><br>= Metal Pick & Place Pad (-DV only) (N/A -T plating)<br><br><b>-TR</b><br>= Tape & Reel |
|   |          |                         |   |                       |  |  |   |

## 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" (1,27µm) Ni

**Operating Temp Range:** -55°C to +105°C with Tin; -55°C to +125°C with Gold

**RoHS Compliant:** Yes

| CURRENT RATING      |                     |
|---------------------|---------------------|
| AMBIENT TEMPERATURE | TMMS Mated with SQT |
| 20°C                | 5.5A                |
| 40°C                | 5A                  |
| 60°C                | 4A                  |
| 80°C                | 3A                  |

### Processing:

**Max Processing Temp:** 230°C for 60 seconds, or 260°C for 20 seconds 3x

**Lead-Free Solderable:** Yes

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

|                                      |          |                         |  |                       |   |                             |           |
|--------------------------------------|----------|-------------------------|--|-----------------------|---|-----------------------------|-----------|
| <b>TMMS</b>                          | <b>1</b> | <b>NO. PINS PER ROW</b> | <b>01</b>                              | <b>PLATING OPTION</b> | <b>Q</b>  | <b>OPTION</b>               | <b>FS</b> |
| <b>Mates with:</b><br>SQT, SQW, ESQT |          |                         | <b>05, 10, 15, 20, 30, 40 &amp; 50</b> |                       | <b>-F</b><br>= Gold flash on contact area, Matte Tin on tail<br><br><b>-L</b><br>= 10µ" (0,25µm) Gold on contact area, Matte Tin on tail<br><br><b>-G</b><br>= 20µ" (0,51µm) Gold on contact area, Gold flash on tail | <b>-RA</b><br>= Right Angle |           |
|                                      |          |                         |  |                       |   |                             |           |

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

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