



(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 50 μ" (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\*  
 \*(.004" stencil solution may be available; contact IPG@samtec.com)

**RECOGNITIONS**

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



|   |          |   |   |  |                   |  |
|---|----------|---|---|--|-------------------|--|
| <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>  |
| <p><b>05, 10, 15, 20, 25, 30, 35, 40, 45</b><br/>                 (40 &amp; 45 = -D &amp; -RA only)<br/>                 (Standard sizes)</p> |          | <p><b>-F</b><br/>                 = Gold flash on post, Matte Tin on tail</p> <p><b>-L</b><br/>                 = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail</p> <p><b>-T</b><br/>                 = Matte Tin</p> | <p><b>-D</b><br/>                 = Vertical Through-hole</p> <p><b>-DV</b><br/>                 = Vertical Surface Mount</p> <p><b>-RA</b><br/>                 = Right-angle Through-hole</p> <p><b>-DH</b><br/>                 = Horizontal Surface Mount</p> | <p><b>-LC</b><br/>                 = Locking Clip (-DV only) (N/A with -A) (Manual placement required)</p> <p><b>-A</b><br/>                 = Alignment Pin (-DV only) (N/A with -LC)</p> <p><b>-SL</b><br/>                 = Solder Locks (-DH only)</p> <p><b>-K</b><br/>                 = (4.50 mm) .177" DIA Polyimide Film Pick &amp; Place Pad (N/A with 15 - 30 positions) (-DH only)</p> <p><b>-TR</b><br/>                 = Tape &amp; Reel</p> |                   |  |
|   |          |   |   |  |                   | <p><b>ALSO AVAILABLE</b><br/>                 (MOQ Required)</p> <p>• Other sizes and platings</p> |

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

**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 50 μ" (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)



|  |          |   |  |                       |          |  |           |
|--|----------|---|--|-----------------------|----------|--|-----------|
| <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> |
| <p><b>05, 10, 15, 20, 30, 40, 50</b></p> |          | <p><b>-F</b><br/>                 = Gold flash on post, Matte Tin on tail</p> <p><b>-L</b><br/>                 = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail</p> | <p><b>-RA</b><br/>                 = Right-angle</p> |                       |          |  |           |
|  |          |   |  |                       |          | <p><b>Note:</b> Due to technical progress, all designs, specifications and components are subject to change without notice.</p> <p><b>WWW.SAMTEC.COM</b></p> <p>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.</p> |           |

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