



(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](mailto:IPG@samtec.com))

**RECOGNITIONS**

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



TSH	1	NO. PINS PER ROW	01	PLATING OPTION	ROW OPTION	OTHER OPTION
		<b>05, 10, 15, 20, 25, 30, 35, 40, 45</b> (40 & 45 = -D & -RA only) (Standard sizes)		<b>-F</b> = Gold flash on post, Matte Tin on tail  <b>-L</b> = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail  <b>-T</b> = Matte Tin	<b>-D</b> = Vertical Through-hole  <b>-DV</b> = Vertical Surface Mount  <b>-RA</b> = Right-angle Through-hole  <b>-DH</b> = Horizontal Surface Mount	<b>-LC</b> = Locking Clip (-DV only) (N/A with -A) (Manual placement required)  <b>-A</b> = Alignment Pin (-DV only) (N/A with -LC)  <b>-SL</b> = Solder Locks (-DH only)  <b>-K</b> = (4.50 mm) .177" DIA Polyimide Film Pick & Place Pad (N/A with 15 - 30 positions) (-DH only)  <b>-TR</b> = Tape & Reel
						<p><b>ALSO AVAILABLE</b> (MOQ Required)</p> <ul style="list-style-type: none"> <li>• Other sizes and platings</li> </ul>

**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)



TMMS	1	NO. PINS PER ROW	01	PLATING OPTION	Q	OPTION	FS
		<b>05, 10, 15, 20, 30, 40, 50</b>		<b>-F</b> = Gold flash on post, Matte Tin on tail  <b>-L</b> = 10 μ" (0.25 μm) Gold on post, Matte Tin on tail		<b>-RA</b> = Right-angle	

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.