



(2.00 mm) .0787"

TMM-112-01-L-D-RA

TMM-116-02-F-S

TMM-108-01-T-D

TMM-108-03-F-Q

TMM SERIES

# LOW-PROFILE THROUGH-HOLE HEADER

## SPECIFICATIONS

For complete specifications see [www.samtec.com/TMM](http://www.samtec.com/TMM)

### Insulator Material:

Black Liquid Crystal Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Sn or Au over

50 μm (1.27 μm) Ni

**Current Rating (SMM/TMM):**

3.2 A per row

(2 pins powered)

### Operating Temp Range:

-55 °C to +105 °C with Tin;

-55 °C to +125 °C with Gold

### Voltage Rating:

281 VAC mated with SQW;

250 VAC mated with SQT

**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

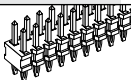
## ALSO AVAILABLE (MOQ Required)

- Other platings

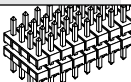
**Note:**  
Some lengths, styles and options are non-standard, non-returnable.

## Other Solutions

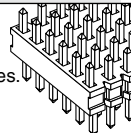
**Press-fit**  
See PTT Series.



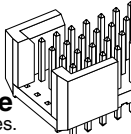
**Elevated**  
See TW Series.



**High-density**  
See TMMH Series.



**Shrouded Four Row Vertical & Right-Angle**  
See TMMS Series.



Paste In Hole (PIH) processing. Contact Samtec ASP Group for part customization.

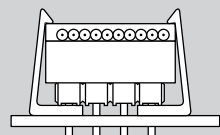
### Board Mates:

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

### Cable Mates:

TCSD

## APPLICATION



Retention Clip Option (-RC)

## 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

Single, double and quad row

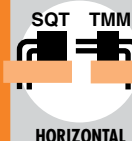
Choice of five lead styles

Ultra-low profile (1.50 mm) .059"

(2.00 mm) .0787"

(2.00 mm) .0787" pitch

## APPLICATIONS



| TMM        | 1           | NO. PINS PER ROW | LEAD STYLE                           | PLATING OPTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ROW OPTION                                                                                | OTHER OPTION                                                                                                                                                                                                                                                                                           |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
|------------|-------------|------------------|--------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---|-----|--|-------------|-------------|-----|-------------|-------------|-------------|-----|-------------|-------------|--|-----|-------------|-------------|-------------|-----|-------------|-------------|--|-----|-------------|-------------|-------------|--|--|
| 01 thru 50 |             |                  | Specify LEAD STYLE from chart below. | <b>-F</b><br>= Gold flash on post, Matte Tin on tail<br><br><b>-L</b><br>= 10 μm (0.25 μm) Gold on post, Matte Tin on tail<br><br><b>-S</b><br>= 30 μm (0.76 μm) Gold on post, Matte Tin on tail<br><br><b>-T</b><br>= Matte Tin                                                                                                                                                                                                                                                                                                                                                                                                       | <b>-S</b><br>= Single Row<br><br><b>-D</b><br>= Double Row<br><br><b>-Q</b><br>= Four Row | <b>-RA &amp; -RE</b><br>= Right-angle (Lead Style -01 only) (2 positions minimum, -Q row)<br><br><b>-RC</b><br>= Retention Clip (Mates with TCSD) (Double row only, 4 positions minimum, only available -06 lead style)<br><br><b>-“XXX”</b><br>= Polarized Position (Specify position of omitted pin) |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
|            |             |                  |                                      | <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>A</th> <th>B</th> <th>C</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td></td> <td>(3.20) .126</td> <td>(3.50) .138</td> </tr> <tr> <td>-02</td> <td>(8.20) .323</td> <td>(3.70) .146</td> <td>(3.00) .118</td> </tr> <tr> <td>-03</td> <td>(4.00) .158</td> <td>(2.70) .106</td> <td></td> </tr> <tr> <td>-04</td> <td>(5.69) .224</td> <td>(1.91) .075</td> <td>(2.29) .090</td> </tr> <tr> <td>-05</td> <td>(5.43) .214</td> <td>(1.65) .065</td> <td></td> </tr> <tr> <td>-06</td> <td>(9.58) .377</td> <td>(3.20) .126</td> <td>(4.88) .192</td> </tr> </tbody> </table> | LEAD STYLE                                                                                | A                                                                                                                                                                                                                                                                                                      | B | C | -01 |  | (3.20) .126 | (3.50) .138 | -02 | (8.20) .323 | (3.70) .146 | (3.00) .118 | -03 | (4.00) .158 | (2.70) .106 |  | -04 | (5.69) .224 | (1.91) .075 | (2.29) .090 | -05 | (5.43) .214 | (1.65) .065 |  | -06 | (9.58) .377 | (3.20) .126 | (4.88) .192 |  |  |
| LEAD STYLE | A           | B                |                                      | C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -01        |             | (3.20) .126      |                                      | (3.50) .138                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -02        | (8.20) .323 | (3.70) .146      |                                      | (3.00) .118                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -03        | (4.00) .158 | (2.70) .106      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -04        | (5.69) .224 | (1.91) .075      | (2.29) .090                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -05        | (5.43) .214 | (1.65) .065      |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
| -06        | (9.58) .377 | (3.20) .126      | (4.88) .192                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
|            |             |                  |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
|            |             |                  |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |
|            |             |                  |                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                           |                                                                                                                                                                                                                                                                                                        |   |   |     |  |             |             |     |             |             |             |     |             |             |  |     |             |             |             |     |             |             |  |     |             |             |             |  |  |

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.