



(2.54 mm) .100"

# SMT .025" SQ POST HEADER

**Board Mates:**  
SSW, SSQ, SSM, BSW, ESW,  
ESQ, BCS, SLW, CES, HLE

**Cable Mates:**  
IDSS, IDSD

## SPECIFICATIONS

For complete specifications and recommended PCB layouts see [www.samtec.com?TSM](http://www.samtec.com?TSM)

**Insulator Material:**  
Black Liquid Crystal Polymer

**Terminal Material:**  
Phosphor Bronze

**Plating:**  
Au or Sn over 50 μ" (1.27 μm) Ni

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

**Voltage Rating:**  
475 VAC -SV/-DV mated with BCS or SSM

**RoHS Compliant:** Yes

| MATES          | CURRENT RATING (PER PIN) |
|----------------|--------------------------|
| TSM/SSW        | 4.7 A                    |
| TSM/SSM        | 5.4 A                    |
| TSM/HLE        | 4.1 A                    |
| 2 PINS POWERED |                          |

## PROCESSING

**Lead-Free Solderable:** Yes

**-DH/-SH Lead Coplanarity:**  
(0.15 mm) .006" max (02-36)\*

**-DV/-SV Lead Coplanarity:**  
(0.10 mm) .004" max (02-05)  
(0.13 mm) .005" max (06-10)\*  
(0.15 mm) .006" max (11-36)\*  
\*(.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)

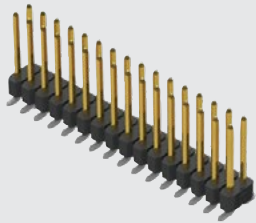


## ALSO AVAILABLE (MOQ Required)

- Edge Mount and Locking Clips for -SV
- Solder Locks for -DH and Shrouds for -DV
- Other platings

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

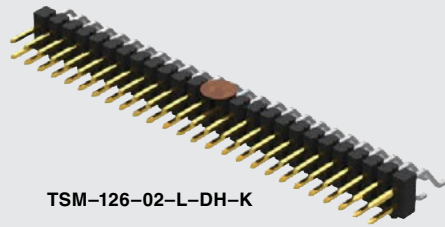
TSM-116-02-S-DV-LC



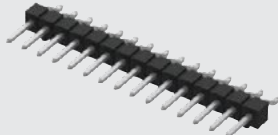
TSM-121-01-T-SV



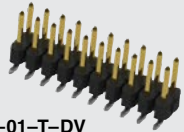
TSM-126-02-L-DH-K



TSM-115-01-T-SH-A

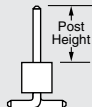


TSM-110-01-T-DV

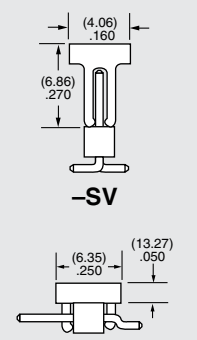


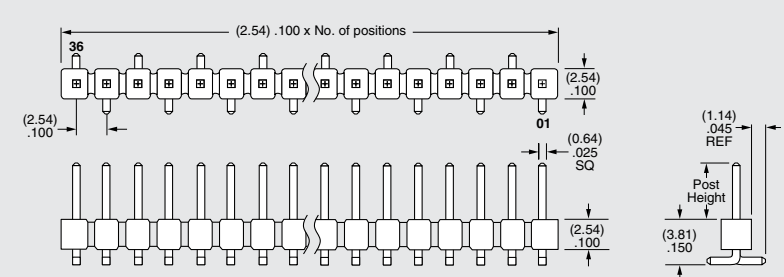
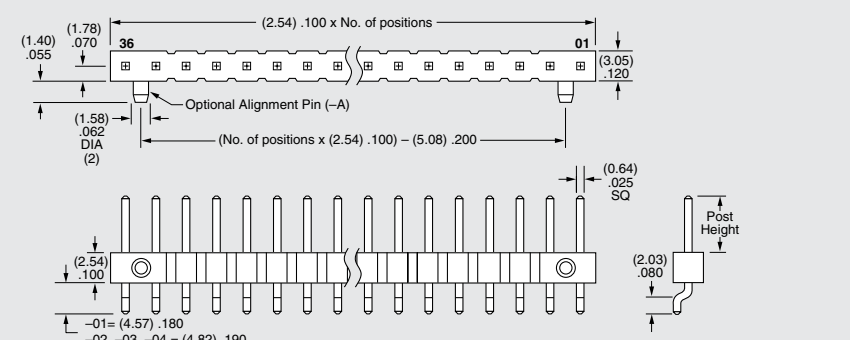
## TSM SERIES

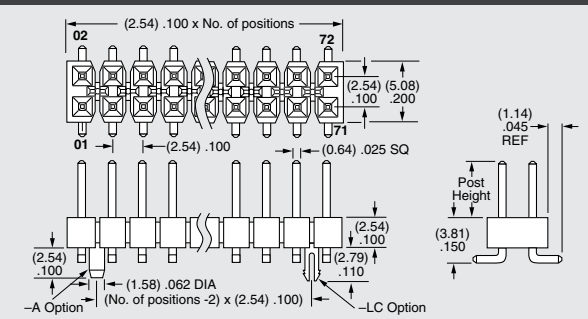
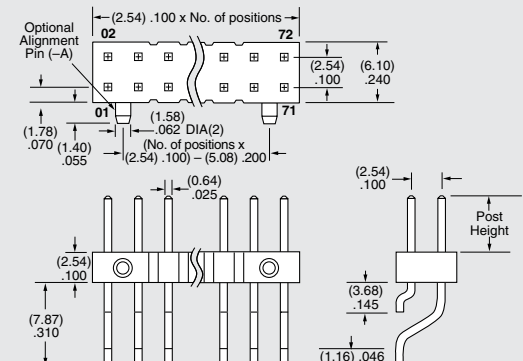
| TSM | 1 | NO. PINS PER ROW | LEAD STYLE | PLATING OPTION | ROW OPTION |
|-----|---|------------------|------------|----------------|------------|
|     |   | 02 thru 36       |            |                |            |

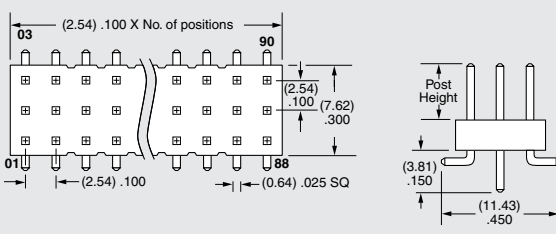
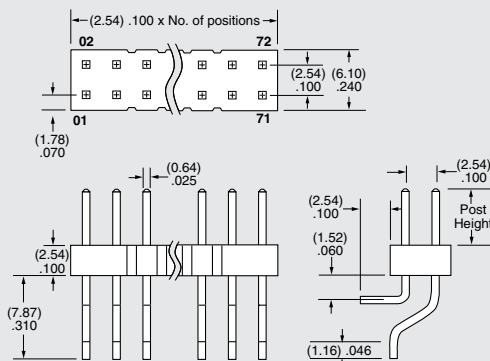
|                                                                                   |                                                                                    |
|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|
|  | <b>-01</b> = .230" (5.84 mm) Post Height<br>(Mates with SSW, BCS, SSM, IDSS, IDSD) |
|                                                                                   | <b>-02</b> = .320" (8.13 mm) Post Height<br>(Mates with SSM -DH)                   |
|                                                                                   | <b>-03</b> = .420" (10.67 mm) Post Height<br>(For Bottom Mount & Pass Through)     |
|                                                                                   | <b>-04</b> = .120" (3.05 mm) Post Height<br>(Mates with SLW, CES, HLE)             |

|                                                                   |
|-------------------------------------------------------------------|
| <b>-F</b><br>= Gold flash on post,<br>Matte Tin on tail           |
| <b>-L</b><br>= 10 μ" (0.25 μm) Gold on post,<br>Matte Tin on tail |
| <b>-S</b><br>= 30 μ" (0.76 μm) Gold on post,<br>Matte Tin on tail |
| <b>-T</b><br>= Matte Tin                                          |

| OTHER OPTIONS                                                                                                                                                     |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                        |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>-A</b><br>= Alignment Pin<br>metal or plastic<br>at Samtec discretion<br>(Not available<br>with -TM or -MT)<br>(02 positions min.)<br>(Not available with -LC) | <b>-K</b><br>= (6.50 mm) .256" DIA<br>Polyimide Film<br>Pick & Place Pad<br>(-SH: 4 positions<br>minimum without -TR;<br>2 & 3 positions<br>available with -TR)<br>(-DH: 4 positions<br>minimum<br>without -TR) | <b>-P</b><br>= Plastic Pick & Place Pad<br>(-DV: 4 positions minimum<br>without -TR; 2 & 3 positions<br>available with -TR)<br>(-SH: 4 positions<br>minimum without -TR;<br>2 & 3 positions<br>available with -TR)<br>(-DH: 5 positions<br>minimum without -TR)<br>(-SV: 4 positions<br>minimum without -TR;<br>2 & 3 positions<br>available with -TR) | <br><b>-SV</b><br><b>-SH &amp; -DH</b>                                                                                                                              |
| <b>-LC</b><br>= Locking Clip<br>(Not available with -TM)<br>(3 positions min.)<br>(Not available with -A)<br>(Manual placement<br>required)                       | <b>-“XXX”</b><br>= Polarized<br>Position                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                        | <b>-TR</b><br>= Tape & Reel Packaging<br>-SV: 02-22 positions, -DV: 02-28 positions,<br>-SH: 02-30 positions, -DH: 02-29 positions<br>(Not available with -MT or -TM)                                                                                  |
|                                                                                                                                                                   |                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                        | <b>-FR</b><br>= Full Reel Tape & Reel<br>(must order maximum quantity per reel;<br>contact Samtec for quantity breaks)<br>-SV: 02-22 positions, -DV: 02-28 positions,<br>-SH: 02-30 positions, -DH: 02-29 positions<br>(Not available with -MT or -TM) |

|                                                                                      |
|--------------------------------------------------------------------------------------|
| <b>-SV</b><br>= Single Row Vertical Pin                                              |
|  |
| <b>-SH</b><br>= Single Row Horizontal Pin                                            |
|  |

|                                                                                       |
|---------------------------------------------------------------------------------------|
| <b>-DV</b><br>= Double Row Vertical Pin                                               |
|  |
| <b>-DH</b><br>= Double Row Horizontal Pin<br>(Style -01, -02 or -03 only)             |
|  |

|                                                                                                    |
|----------------------------------------------------------------------------------------------------|
| <b>-TM</b><br>= Triple Row Vertical Mixed Technology (Style -01 only)<br>02 thru 30 positions only |
|               |
| <b>-MT</b><br>= Mixed Technology Pin<br>(Style -01, -02 or -03 only)                               |
|               |

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

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Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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