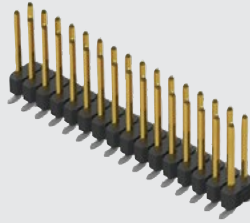


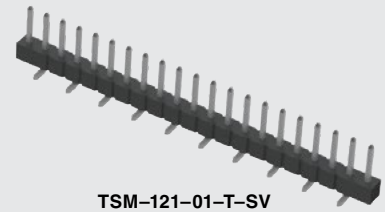


(2.54 mm) .100"

TSM-116-02-S-DV-LC



TSM-121-01-T-SV



# 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 μm (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                    |
| <b>2 PINS POWERED</b> |                          |

**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](mailto: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.

|            |          |                         |   |   |                   |
|------------|----------|-------------------------|---|---|-------------------|
| <b>TSM</b> | <b>1</b> | <b>NO. PINS PER ROW</b> | <b>LEAD STYLE</b>   | <b>PLATING OPTION</b>   | <b>ROW OPTION</b> |
|            |          | <b>02 thru 36</b>       | <p><b>-01</b><br/>= .230" (5.84 mm) Post Height (Mates with SSW, BCS, SSM, IDSS, IDSD)</p> <p><b>-02</b><br/>= .320" (8.13 mm) Post Height (Mates with SSM -DH)</p> <p><b>-03</b><br/>= .420" (10.67 mm) Post Height (For Bottom Mount &amp; Pass Through)</p> <p><b>-04</b><br/>= .120" (3.05 mm) Post Height (Mates with SLW, CES, HLE)</p> | <p><b>-F</b> = Gold flash on post, Matte Tin on tail</p> <p><b>-L</b> = 10 μm (0.25 μm) Gold on post, Matte Tin on tail</p> <p><b>-S</b> = 30 μm (0.76 μm) Gold on post, Matte Tin on tail</p> <p><b>-T</b> = Matte Tin</p> |                   |
|            |          |                         |   |   |                   |

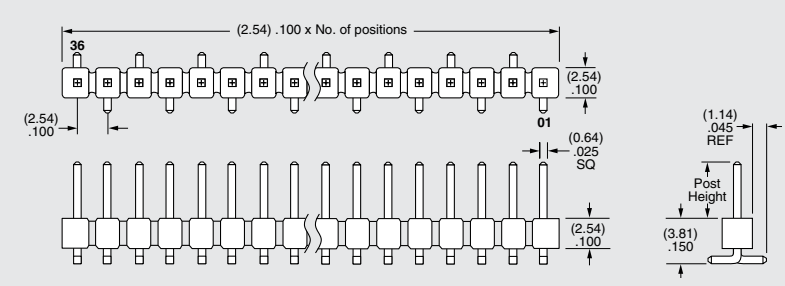
**APPLICATIONS**

**HIGH-SPEED CHANNEL PERFORMANCE**

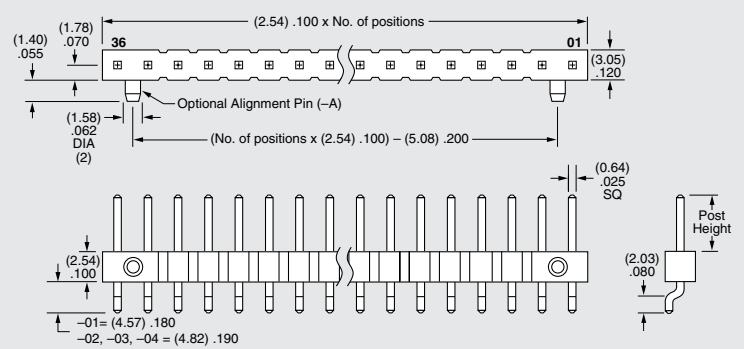
Rating based on Samtec reference channel. For full SI performance data visit [Samtec.com](http://Samtec.com) or contact [SIG@samtec.com](mailto:SIG@samtec.com)

**8** Gbps

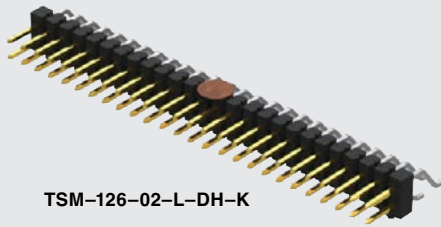
**-SV = Single Row Vertical Pin**



**-SH = Single Row Horizontal Pin**

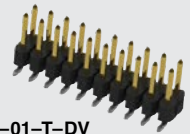
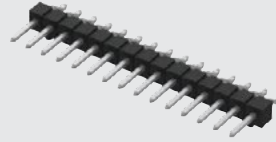


Due to technical progress, all designs, specifications and components are subject to change without notice.



TSM-126-02-L-DH-K

TSM-115-01-T-SH-A



TSM-110-01-T-DV

**TSM SERIES**

**OTHER OPTIONS**

**-A**

= Alignment Pin metal or plastic at Samtec discretion (Not available with -TM or -MT) (02 positions min.) (Not available with -LC)

**-LC**

= Locking Clip (Not available with -TM) (3 positions min.) (Not available with -A) (Manual placement required)

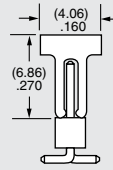
**-K**

= (6.50 mm) .256" DIA Polyimide Film Pick & Place Pad (-SH: 4 positions minimum without -TR; 2 & 3 positions available with -TR) (-DH: 4 positions minimum without -TR)

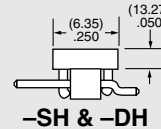
**-“XXX”**  
= Polarized Position

**-P**

= Plastic Pick & Place Pad (-DV: 4 positions minimum without -TR; 2 & 3 positions available with -TR) (-SH: 4 positions minimum without -TR; 2 & 3 positions available with -TR) (-DH: 5 positions minimum without -TR) (-SV: 4 positions minimum without -TR; 2 & 3 positions available with -TR)



**-SV**



**-SH & -DH**

**-TR**

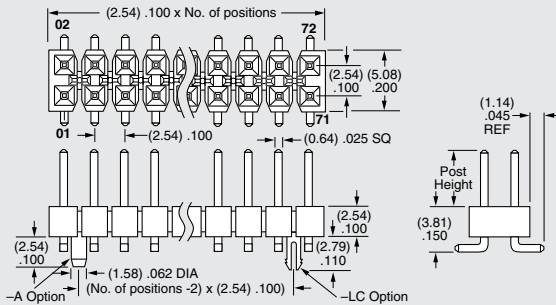
= Tape & Reel Packaging (-SV: 02-22 positions, -DV: 02-28 positions, -SH: 02-30 positions, -DH: 02-29 positions) (Not available with -MT or -TM)

**-FR**

= Full Reel Tape & Reel (must order maximum quantity per reel; contact Samtec for quantity breaks) (-SV: 02-22 positions, -DV: 02-28 positions, -SH: 02-30 positions, -DH: 02-29 positions) (Not available with -MT or -TM)

**-DV**

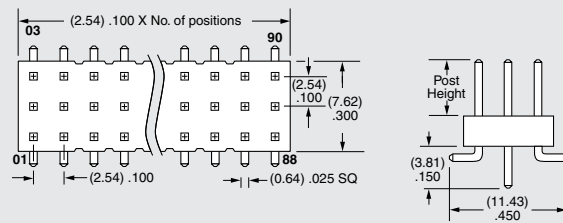
= Double Row Vertical Pin



**-TM**

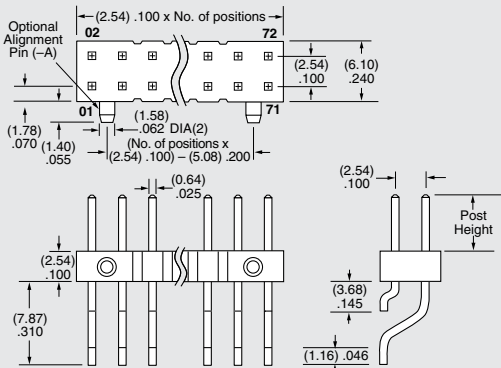
= Triple Row Vertical Mixed Technology (Style -01 only)

02 thru 30 positions only



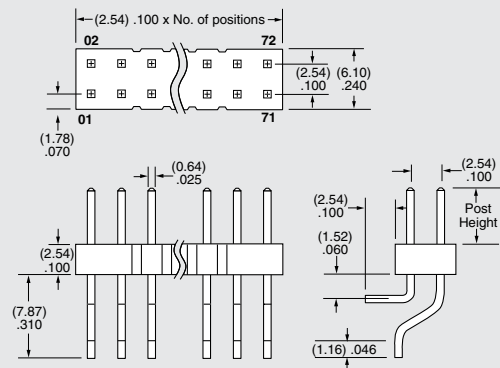
**-DH**

= Double Row Horizontal Pin (Style -01, -02 or -03 only)



**-MT**

= Mixed Technology Pin (Style -01, -02 or -03 only)



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.

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