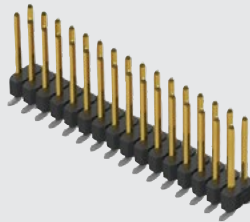




(2.54 mm) .100"

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 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)



FILE NO. E111594

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

## APPLICATIONS



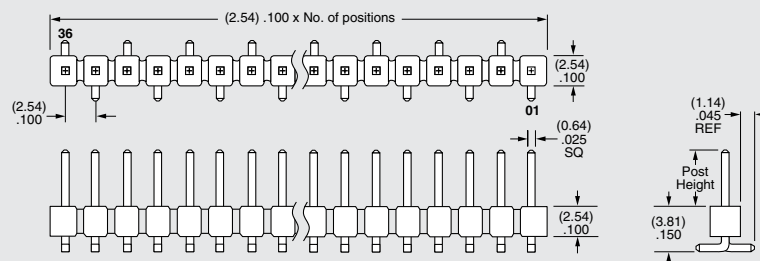
## HIGH-SPEED CHANNEL PERFORMANCE

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

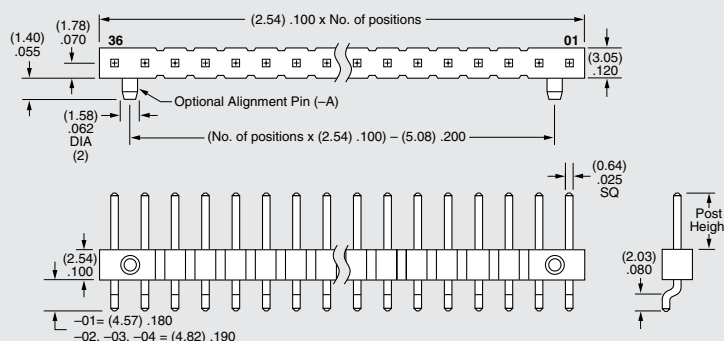
## -SV

= Single Row Vertical Pin



## -SH

= Single Row Horizontal Pin



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

[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.



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

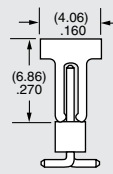
= (6.50 mm) .256" DIA  
Polyimide Film  
Pick & Place Pad  
(-SH: 4 positions  
minimum without -TR;  
2 & 3 positions  
available with -TR)  
(-DH: 4 positions  
minimum  
without -TR)

#### -“XXX”

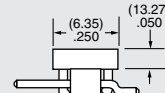
= Polarized  
Position

#### -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

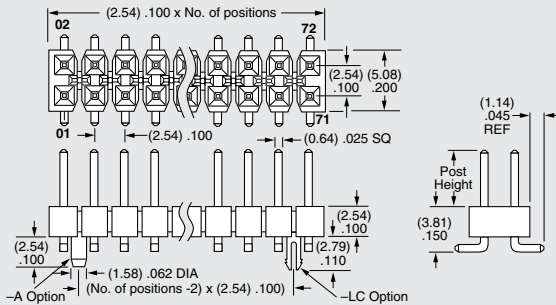
= Tape & Reel Packaging  
-SV: 02-22 positions, -DV: 02-28 positions,  
-SH: 02-30 positions, -DH: 02-29 positions  
(Not available with -MT or -TM)

#### -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

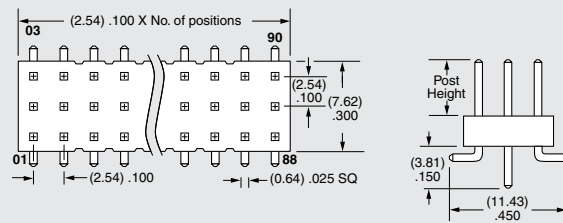
= Double Row Vertical Pin



#### -TM

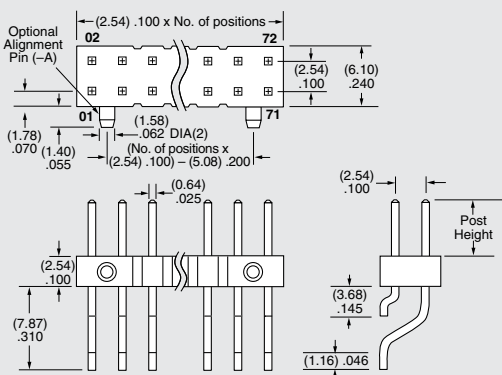
= Triple Row Vertical Mixed Technology (Style -01 only)

02 thru 30 positions only



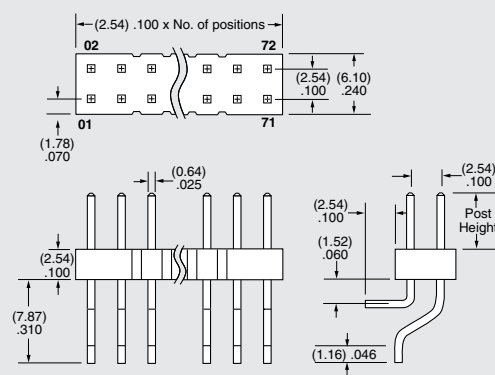
#### -DH

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



#### -MT

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



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# Mouser Electronics

Authorized Distributor

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[TSM-109-02-L-DV](#)