



(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<br>(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 | 1 | NO. PINS<br>PER ROW | LEAD<br>STYLE | PLATING<br>OPTION | ROW<br>OPTION |
|-----|---|---------------------|---------------|-------------------|---------------|
|     |   | 02 thru 36          |               |                   |               |

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

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

|                                                 |  |
|-------------------------------------------------|--|
| <h3>-SV</h3> <p>= Single Row Vertical Pin</p>   |  |
| <h3>-SH</h3> <p>= Single Row Horizontal Pin</p> |  |

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)

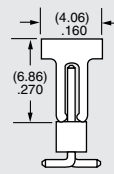
#### -K

= (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)

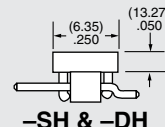
-“XXX”  
= Polarized  
Position

#### -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

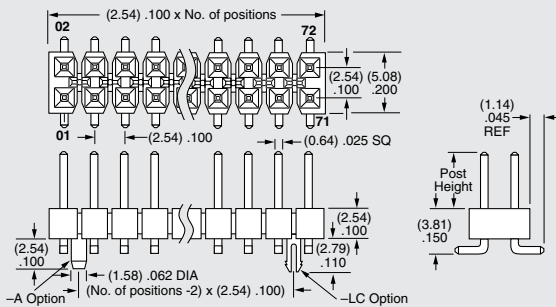
= Tape & Reel Packaging  
-SV: 02-22 positions, -DV: 02-28 positions,  
-SH: 02-30 positions, -DH: 02-29 positions  
(Not available with -MT or -TM)

#### -FR

= Full Reel Tape & Reel Packaging  
(Must order maximum quantities per reel.  
Contact Samtec for parts per reel)  
-SV: 02-22 positions, -DV: 02-28 positions,  
-SH: 02-30 positions, -DH: 02-29 positions  
(Not available with -MT or -TM)

#### -DV

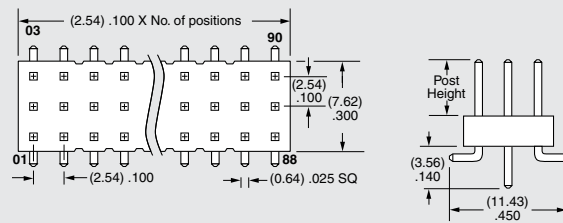
= Double Row Vertical Pin



#### -TM

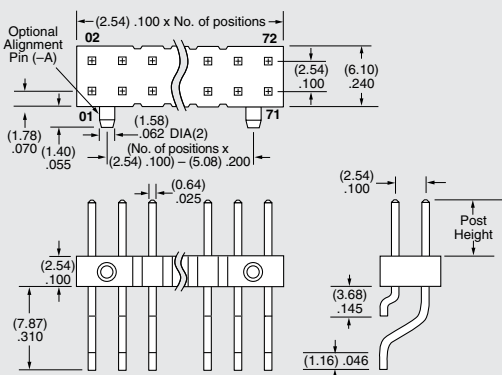
= Triple Row Vertical Mixed Technology (Style -01 only)

02 thru 30 positions only



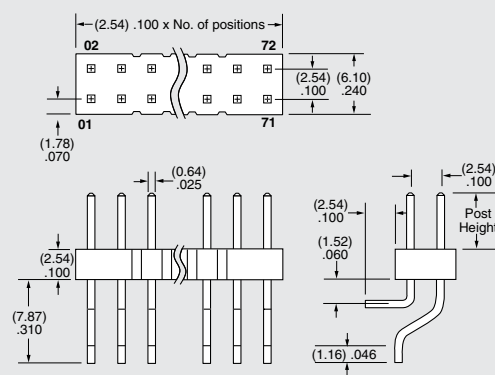
#### -DH

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



#### -MT

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



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