samtec

TSM–116–02–S–DV–LC

TSM–121–01–T–SV

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING CYCLES

(2.54 mm) .100"
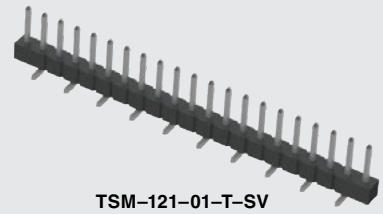
SMT .025" SQ POST HEADER

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

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

UL 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.

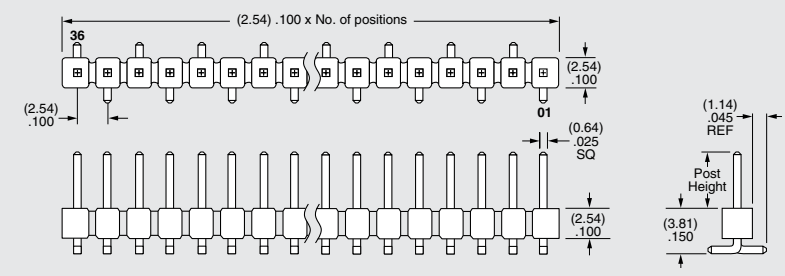| TSM	–	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION

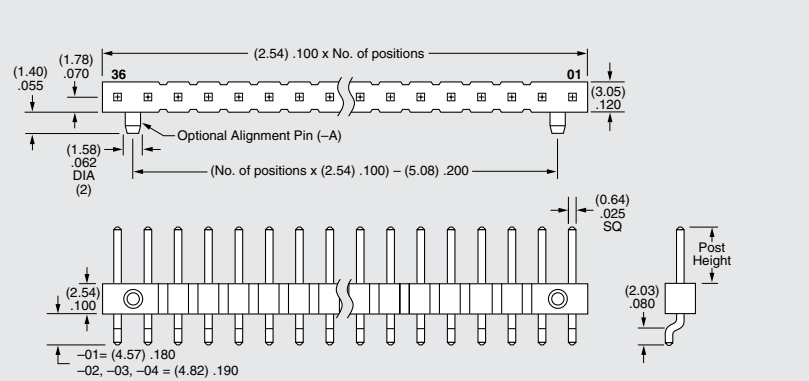**02 thru 36**

APPLICATIONS
SSM   TSM
HORIZONTAL

HIGH-SPEED CHANNEL PERFORMANCE
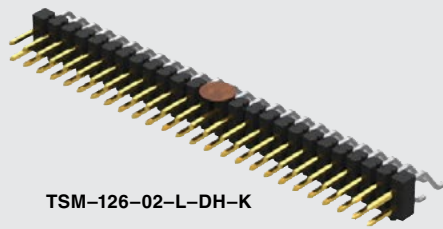*Rating based on Samtec reference channel. For full SI performance data visit Samtec.com or contact SIG@samtec.com*
8 Gbps

–01
= .230" (5.84 mm) Post Height
(Mates with SSW, BCS, SSM, IDSS, IDSD)

–02
= .320" (8.13 mm) Post Height
(Mates with SSM -DH)

–03
= .420" (10.67 mm) Post Height
(For Bottom Mount & Pass Through)

–04
=.120" (3.05 mm) Post Height
(Mates with SLW, CES, HLE)

–F = Gold flash on post, Matte Tin on tail

–L = 10 µ" (0.25 µm) Gold on post, Matte Tin on tail

–S = 30 µ" (0.76 µm) Gold on post, Matte Tin on tail

–T = Matte Tin

–SV
= Single Row Vertical Pin

36
(2.54) .100 x No. of positions
(2.54) .100
(2.54) .100
01
(0.64) .025 SQ
(2.54) .100
(2.54) .100
(1.14) .045 REF
Post Height
(3.81) .150

–SH
= Single Row Horizontal Pin

(1.40) .055
(1.78) .070
36
(2.54) .100 x No. of positions
01
(3.05) .120
Optional Alignment Pin (–A)
(1.58) .062 DIA (2)
(No. of positions x (2.54) .100) – (5.08) .200
(0.64) .025 SQ
Post Height
(2.54) .100
(2.03) .080
–01= (4.57) .180
–02, –03, –04 = (4.82) .190

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All parts within this catalog are built to Samtec's specifications.
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TSM–126–02–L–DH–K

TSM–115–01–T–SH–A
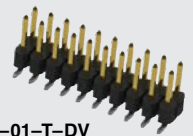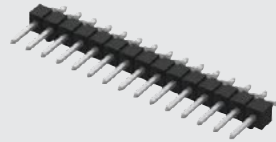
TSM–110–01–T–DV

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)

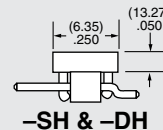(–DH: 4 positions minimum without –TR)

–"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)

(4.06) .160

(6.86) .270

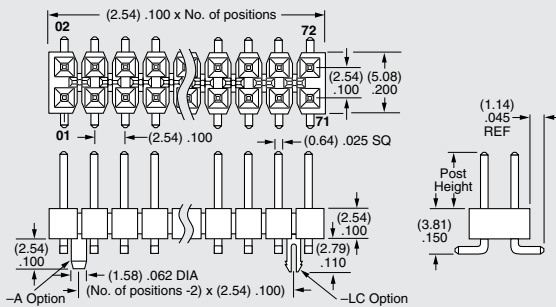**–SV**

(6.35) .250   (13.27) .050
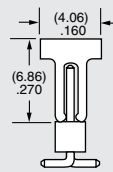
–SH & –DH

–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
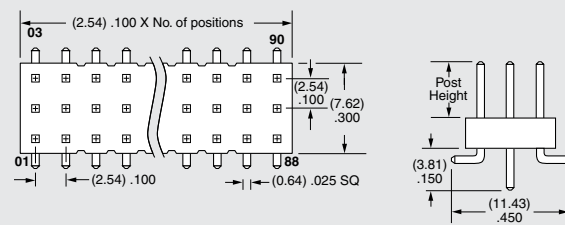= Double Row Vertical Pin

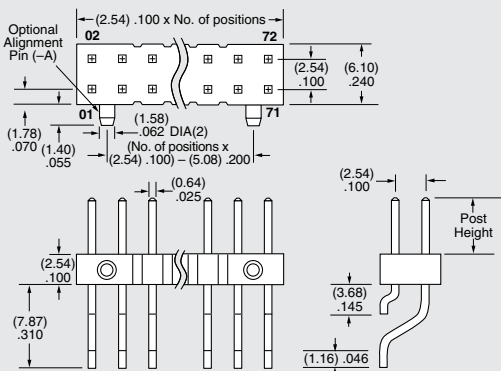

(2.54) .100 x No. of positions
02 ... 72
(2.54) .100   (5.08) .200
01 ... 71
(2.54) .100   (0.64) .025 SQ
(1.14) .045 REF
Post Height
(3.81) .150
(2.54) .100
(2.79) .110
(2.54) .100
(1.58) .062 DIA
(No. of positions -2) x (2.54) .100
–A Option   –LC Option

–TM
= Triple Row Vertical Mixed Technology (Style –01 only)

02 thru 30 positions only

(2.54) .100 X No. of positions
03 ... 90
(2.54) .100   (7.62) .300
01 ... 88
(2.54) .100   (0.64) .025 SQ
Post Height
(3.81) .150
(11.43) .450

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

Optional Alignment Pin (–A)
(2.54) .100 x No. of positions
02 ... 72
(2.54) .100   (6.10) .240
01 ... 71
(1.58) .062 DIA(2)
(No. of positions x (2.54) .100) – (5.08) .200
(1.78) .070   (1.40) .055
(0.64) .025
(2.54) .100
(7.87) .310
(2.54) .100
Post Height
(3.68) .145
(1.16) .046

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

(2.54) .100 x No. of positions
02 ... 72
(2.54) .100   (6.10) .240
01 ... 71
(1.78) .070
(0.64) .025
(2.54) .100
(7.87) .310
(2.54) .100
(1.52) .060
(2.54) .100
Post Height
(1.16) .046

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