samtec

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

TSM–116–02–S–DV–LC

TSM–121–01–T–SV

TSM–115–01–T–SH–A

TSM–110–01–T–DV

TSM–126–02–L–DH–K

(2.54 mm) .100"

TSM SERIES

SMT .025" SQ POST HEADER

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

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.

NO. PINS PER ROW
02 thru 36

Post Height

–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)

LEAD STYLE

–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

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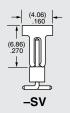
–K = (6.50 mm) .256" DIA Polyimide Film Pick & Place Pad
(–DV: 4 positions minimum without –TR; 2 & 3 positions available with –TR)
(–SH: 4 positions minimum without –TR; 2 & 3 positions available with –TR)
(–DH: 4 positions minimum without –TR)

–"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
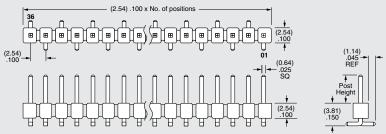(6.86) .270
–SV

(6.35) .250 (13.27) .050
–SH & –DH

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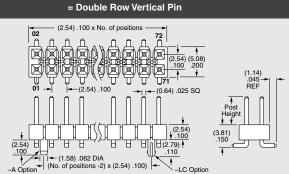–SV: 02-22 positions, –DV:02-28 positions, –SH: 02-30 positions, –DH: 02-29 positions (Not available with –MT or –TM)

–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)
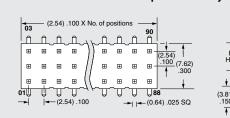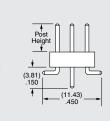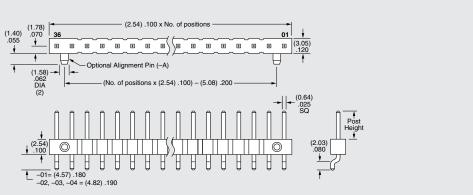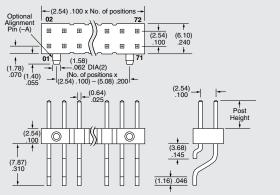
–SV
= Single Row Vertical Pin

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

–DV
= Double Row Vertical Pin

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

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

02 thru 30 positions only

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

–SH
= Single Row Horizontal Pin

APPLICATIONS
SSM TSM
HORIZONTAL

(2.54) .100 x No. of positions
36 ... 01
(1.78) .070 (1.40) .055
(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
(2.54) .100
(2.03) .080
Post Height
–01= (4.57) .180
–02, –03, –04 = (4.82) .190

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

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

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

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