



(2,54mm) .100"

TSW, HTSW SERIES

TSW-108-05-L-Q

TSW-116-11-G-S

# THROUGH-HOLE .025" SQ POST HEADER

## Mates with:

SSW, SSQ, SSM, ESW, ESQ,  
BCS, BSW, CES, SLW, IDSD,  
IDSS, SMSD, SMSS

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?TSW](http://www.samtec.com?TSW)

### TSW

#### Insulator Material:

Black Glass Filled  
Polyester

#### Terminal Material:

Phosphor Bronze

#### Plating:

Au or Sn over 50µ" (1,27µm) Ni

#### Operating Temp Range:

-55°C to +125°C with Gold

-55°C to +105°C with Tin

#### Voltage Rating:

550 VAC mated with SSW;

500 VAC mated with

BCS or ESQ;

450 VAC -RA/-RE mated with

BCS or SSM

#### RoHS Compliant:

Yes

#### Lead-Free Solderable:

Wave Only



## TYPE STRIP

TSW = Standard Strip

HTSW = Hi-Temp Strip

## PIN CENTERS

-1 = .100" (2,54mm) Centers,  
All Positions Filled



-2 = .200" (5,08mm) Centers,  
Every Other Position Filled



## NO. PINS PER ROW

| CURRENT RATING |                |      |      |      |      |      |
|----------------|----------------|------|------|------|------|------|
| AMBIENT TEMP   | TSW mated with |      |      |      |      |      |
|                | ESW            | SSW  | SLW  | SSQ  | SSM  | BCS  |
| 20°C           | 6.9A           | 6.9A | 7.1A | 7.6A | 6.9A | 5.9A |
| 40°C           | 6A             | 6.1A | 6.2A | 6.9A | 6A   | 5.2A |
| 60°C           | 5.3A           | 5.3A | 5.8A | 5.9A | 5.3A | 4.7A |
| 95°C           | 3.5A           | 3.5A | 3.7A | 3.9A | 3.5A | 3A   |

6 POSITIONS (2x3) POWERED

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?HTSW](http://www.samtec.com?HTSW)

### HTSW

Same as TSW

except:

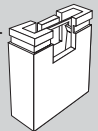
#### Insulator Material:

Natural Liquid Crystal  
Polymer



## ALSO AVAILABLE

Shunts.  
See  
SNT  
Series



**Note:** Some lengths,  
styles and options are  
non-standard, non-returnable.

## APPLICATIONS



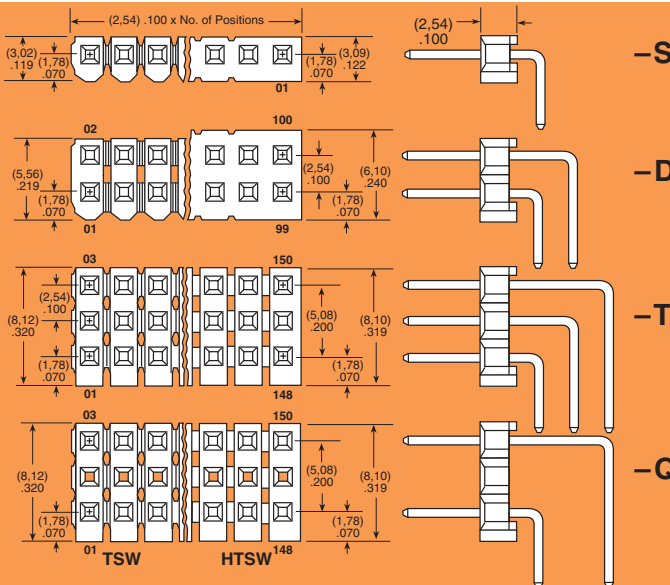
HORIZONTAL

## Straight Pin Versions



01  
thru  
50  
= .100" (2,54mm)  
Center Version

## Right Angle Versions



02  
thru  
25  
= .200" (5,08mm)  
Center Version

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

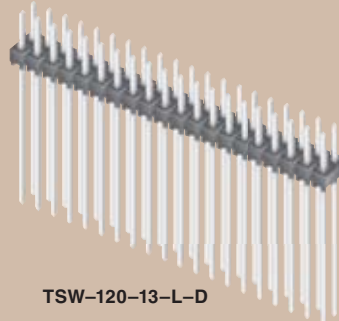
[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292  
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766  
SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683

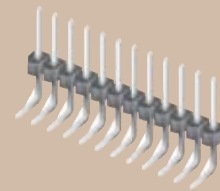
TSW-109-10-F-D-RA



TSW-112-07-G-T



TSW-120-13-L-D



TSW-112-16-T-S-RE

LEAD  
STYLEPLATING  
OPTIONROW  
OPTION

## OTHER OPTIONS

## -F

= Gold flash on post, Matte Tin on tail

## -L

= 10µ" (0,25µm) Gold on post, Matte Tin on tail

## -G

= 10µ" (0,25µm) Gold on post, Gold flash on balance

## -T

= Matte Tin

## -SS

= 30µ" (0,76µm) Gold stripe on contact area,  
Gold flash to tip, Matte Tin on tail  
(Mates with SSW, SSQ, SSM, ESW, ESQ, BCS only)  
(Straight lead styles -07, -08, -09 and Right Angle (-RA) -08 only)

Specify  
-SS for  
cost-effective  
heavy Gold  
where it  
counts!

Note: Other Gold plating options available. Contact Samtec.

## -S

= Single Row

## -D

= Double Row

## -T

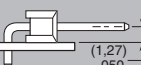
= Triple Row

## -Q

= Double Row  
(5,08mm)  
.200" row  
space

## -RA or -RE

= Right Angle

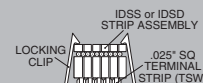
(1,27)  
.050

Two leads per strip crimped in opposite directions on or near centerline. See charts for available styles. N/A with single row 1 or 2 positions. Recommended hole size (1,02mm ± 0,03mm) .040" ± .001"

= Locking Lead

## -LC

= Locking Clip  
(Styles -08 thru  
-13 & -22 only)



IDSS or IDSD STRIP ASSEMBLY  
LOCKING CLIP  
PC BOARD  
.025" SQ TERMINAL STRIP (TSW)  
Requires 4 pin minimum  
(NA with -T, -Q, -RA or -RE)

## -LA

= -RA Option  
with -LL Option

## -“XXX”

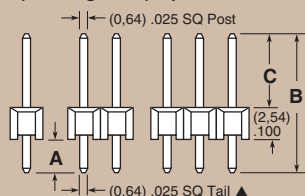
= Polarized Position

## Straight Pin Versions

(Specify “LEAD STYLE” from chart)

| STYLE | A               | B                | C               |
|-------|-----------------|------------------|-----------------|
| * -05 | (3,30)<br>.130  | (8,51)<br>.335   | (2,67)<br>.105  |
| * -06 | (2,41)<br>.095  | (7,62)<br>.300   | (2,67)<br>.105  |
| * -07 | (2,54)<br>.100  | (10,92)<br>.430  |                 |
| * -08 | (5,08)<br>.200  | (13,46)<br>.530  |                 |
| -09   | (10,16)<br>.400 | (18,54)<br>.730  |                 |
| -10   | (12,70)<br>.500 | (23,62)<br>.930  | (5,84)<br>.230  |
| -11   | (15,24)<br>.600 | (23,62)<br>.930  |                 |
| -12   | (17,78)<br>.700 | (26,16)<br>.1030 |                 |
| -13   | (22,86)<br>.900 | (31,24)<br>.1230 |                 |
| -14   | (2,79)<br>.110  | (13,46)<br>.530  | (8,13)<br>.320  |
| * -15 |                 | (18,54)<br>.730  | (13,21)<br>.520 |
| * -16 | (7,87)<br>.310  |                  | (8,13)<br>.320  |
| * -17 | (2,79)<br>.110  | (21,08)<br>.830  | (15,74)<br>.620 |

\* Available with -LL  
(Locking Lead) Option



Specify -07 for best mate with IDXX Series IDC Cable

| STYLE | A                | B                | C                |
|-------|------------------|------------------|------------------|
| * -18 |                  | (23,62)<br>.930  | (18,29)<br>.720  |
| * -19 | (2,79)<br>.110   | (26,16)<br>.1030 | (20,83)<br>.820  |
| * -20 |                  | (31,24)<br>.1230 | (25,91)<br>.1020 |
| * -21 |                  | (36,32)<br>.1430 | (30,99)<br>.1220 |
| * -22 | (7,62)<br>.300   | (16,00)<br>.630  | (5,84)<br>.230   |
| * -23 | (2,92)<br>.115   | (11,30)<br>.445  | (6,73)<br>.265   |
| * -24 | (5,33)<br>.210   | (16,00)<br>.630  | (8,13)<br>.320   |
| * -25 | (3,20)<br>.126   | (11,58)<br>.456  |                  |
| ▲ -26 | (25,40)<br>.1000 | (33,78)<br>.1330 | (5,84)<br>.230   |
| -27   | (20,32)<br>.800  | (28,70)<br>.1130 |                  |
| -28   | (23,11)<br>.910  | (33,78)<br>.1330 | (8,13)<br>.320   |
| -29   | (18,03)<br>.035  | (28,70)<br>.1130 |                  |
| -30   | (0,89)<br>.035   | (9,27)<br>.365   | (5,84)<br>.230   |
| -41+  | (1,27)<br>.050   | (11,94)<br>.470  | (8,13)<br>.320   |

+ Style -41 & -42 available  
with HTSW only.

▲ Except: Style -26  
(0,46) .018 DIA Tail

## Right Angle Versions

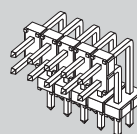
(Specify “LEAD STYLE” from chart and select -RA or -RE from other options)

| -RA LEAD STYLE | SINGLE (-S)     |                | DOUBLE (-D)     | TRIPLE (-T & -Q) | -RE LEAD STYLE | SINGLE          | C              |
|----------------|-----------------|----------------|-----------------|------------------|----------------|-----------------|----------------|
|                | A               | C              | A               | A                |                | A               |                |
| -08            | (2,29)<br>.090  |                | (2,29)<br>.090  | (2,29)<br>.090   | -09            | (4,83)<br>.190  |                |
| -09            | (7,37)<br>.290  |                | (7,37)<br>.290  | (7,37)<br>.290   | -10            | (7,37)<br>.290  |                |
| -10            | (9,91)<br>.390  | (5,84)<br>.230 | (9,91)<br>.390  | (9,91)<br>.390   | -11            | (9,91)<br>.390  | (5,84)<br>.230 |
| -11            | (12,45)<br>.490 |                | (12,45)<br>.490 | (12,45)<br>.490  | -12            | (12,45)<br>.490 |                |
| -12            | (14,99)<br>.590 |                | (14,99)<br>.590 | (14,99)<br>.590  | -13            | (17,53)<br>.690 |                |
| -13            | (20,07)<br>.790 |                | (20,07)<br>.790 | N/A              | -16            | (2,54)<br>.100  | (8,13)<br>.320 |
| * -16          | (5,08)<br>.200  | (8,13)<br>.320 | (5,08)<br>.200  | (5,08)<br>.200   | -21            | (22,61)<br>.890 |                |
| -21            | (25,15)<br>.990 | (5,84)<br>.230 | N/A             | N/A              | -22            | (2,29)<br>.090  | (5,84)<br>.230 |
| * -22          | (4,83)<br>.190  |                | (4,83)<br>.190  | (4,83)<br>.190   | -27            | (20,07)<br>.790 |                |
| * -25          | (2,54)<br>.100  | (8,13)<br>.320 | (2,54)<br>.100  | (2,54)<br>.100   | -28            | (14,99)<br>.590 |                |
| -27            | (22,61)<br>.890 | (5,84)<br>.230 | N/A             | N/A              |                |                 |                |
| -28            | (17,53)<br>.690 |                | (17,53)<br>.690 | N/A              |                |                 |                |
| -29            | (20,32)<br>.800 | (8,13)<br>.320 | N/A             | N/A              |                |                 |                |
| -30            | (15,24)<br>.600 |                | (15,24)<br>.600 | N/A              |                |                 |                |

\* Available with -LA  
(Locking Lead) Option

ALSO  
AVAILABLE

Elevated Right  
Angle option.  
Call Samtec.



| LEAD STYLE | B              |
|------------|----------------|
| -RA        | (1,52)<br>.060 |
| -RE        | (4,06)<br>.160 |

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

WWW.SAMTEC.COM

SAMTEC USA • Tel: 1-800-SAMTEC-9 or 812-944-6733 SAMTEC NORTHERN CALIFORNIA • Tel: 408-395-5900 SAMTEC SOUTHERN CALIFORNIA • Tel: 1-800-726-8329  
SAMTEC AMERICA LATINA COMERCIO EXTERIOR LTDA • Tel: (+55 31) 3786 3227 SAMTEC UNITED KINGDOM • Tel: 44 01236 739292 SAMTEC GERMANY • Tel: +49 (0) 89 / 89460-0  
SAMTEC FRANCE • Tel: 33 01 60 95 06 60 SAMTEC ITALY • Tel: 39 039 6890337 SAMTEC NORDIC/BALTIC • Tel: +46-84477280 SAMTEC BENELUX • Tel: 44 01236 739292  
SAMTEC ISRAEL • Tel: 972-3-7526600 SAMTEC INDIA • Tel: +91-80-3272 1612 SAMTEC ASIA PACIFIC • Tel: 65 6745-5955 SAMTEC JAPAN • Tel: 045-475-1385 SAMTEC CHINA • Tel: 86-21-6083 3766  
SAMTEC TAIWAN • Tel: 886-2-2735-6109 SAMTEC HONG KONG • Tel: 852-26904858 SAMTEC KOREA • Tel: 82-31-717-5685 SAMTEC ANZ • Tel: 613 9580 0683