

(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



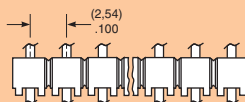
## TYPE STRIP

TSW = Standard Strip

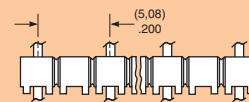
HTSW = Hi-Temp Strip

## 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:

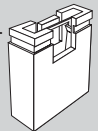
#### Insulator Material:

Natural Liquid Crystal  
Polymer



**ALSO AVAILABLE**

Shunts.  
See  
SNT  
Series



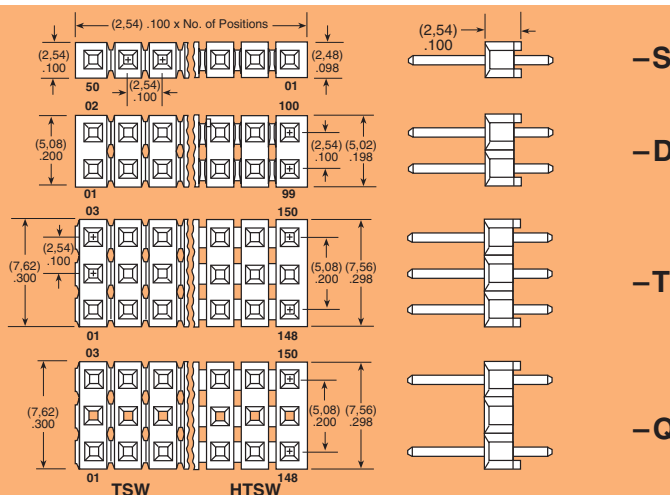
**Note:** Some lengths,  
styles and options are  
non-standard, non-returnable.

## APPLICATIONS



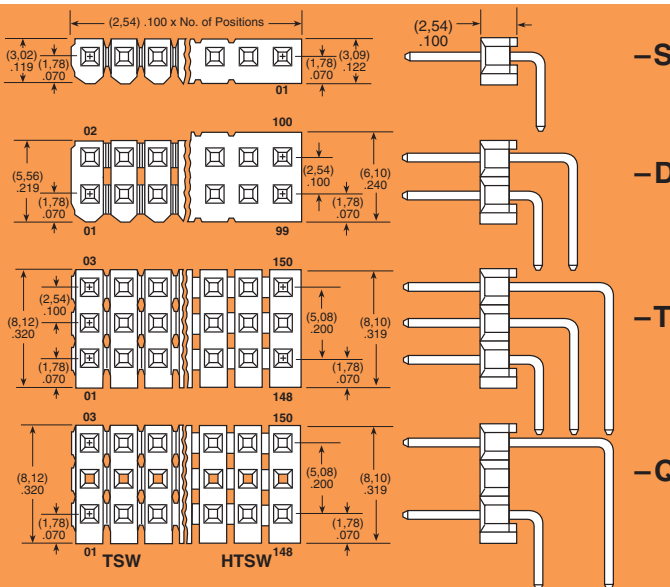
HORIZONTAL

## Straight Pin Versions



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

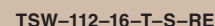
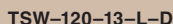
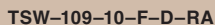
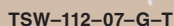
## Right Angle Versions



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)



## PLATING OPTION

## ROW OPTION

## OTHER OPTIONS

**= Gold flash on post, Matte Tin on tail**

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

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

**= Matte Tin**

**= 30μ" (0,76μm) Gold stripe on contact area,**

– 30µ (0,70pin) 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)

**Note:** Other Gold plating options available. Contact Samtec.

–S  
= Single  
Row

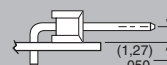
**-D**  
= Double Bow

**-T**  
= Triple  
Row

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

– RA or –RE  
= Right Angle

**-NA**  
= Right Angle  
(using straight body for coplanar  
mating with SSW-RA series)

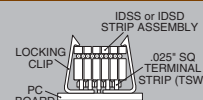


**-LL**  
**Locking Lead**



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  $(1.02\text{mm} \pm 0.03\text{mm}) .040" \pm .001"$

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



Requires 4 pin minimum  
(NA with -T,-Q,-RA or -RE)

**= -RA Option  
with -LL Option**

– “XXX”  
= Polarized Position

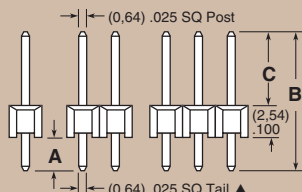
**Specify  
-SS for  
cost-effective  
heavy Gold  
where it  
counts!**

## 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>.730 | (18.54)<br>.430  |                 |
|   | -10   | (12.70)<br>.500 | (21.08)<br>.830  | (5.84)<br>.230  |
|   | -11   | (15.24)<br>.600 | (23.62)<br>.930  |                 |
|   | -12   | (17.78)<br>.700 | (26.16)<br>1.030 |                 |
|   | -13   | (22.86)<br>.900 | (31.24)<br>1.230 |                 |
|   | -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   | (2,79)<br>.110   | (23,62)<br>.930  | (18,29)<br>.720  |                |
| ★ | -19   |                  | (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   | (11,39)<br>.465  |                  |                |
| ★ | -24   |                  | (12,15)<br>.480  | (6,73)<br>.265   |                |
| ★ | -25   | (5,33)<br>.210   | (16,00)<br>.630  | (8,13)<br>.320   |                |
| ▲ | -26   | (3,20)<br>.126   | (11,58)<br>.456  | (5,84)<br>.230   |                |
|   | -27   | (25,40)<br>.1000 | (33,78)<br>.1330 |                  |                |
|   | -28   | (20,32)<br>.800  | (28,70)<br>.1130 |                  |                |
|   | -29   | (23,11)<br>.910  | (33,78)<br>.1330 |                  | (8,13)<br>.320 |
|   | -30   | (18,03)<br>.710  | (28,70)<br>.1130 |                  |                |
|   | -41+  | (0,89)<br>.035   | (9,27)<br>.365   | (5,84)<br>.230   |                |
|   | -42+  | (1,27)<br>.062   | (11,94)<br>.463  | (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<br>STYLE | SINGLE (-S)     |                | DOUBLE (-D)     | TRIPLE (-T & -Q) |  | -RE LEAD<br>STYLE | SINGLE<br>A     | C              |
|---|-------------------|-----------------|----------------|-----------------|------------------|--|-------------------|-----------------|----------------|
|   |                   | A               | C              |                 |                  |  |                   |                 |                |
|   | -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>.890 | (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 |                | N/A             | N/A              |  |                   |                 |                |
|   | -30               | (15,24)<br>.600 | (8,13)<br>.320 | (15,24)<br>.600 |                  |  |                   |                 |                |

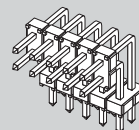
\* Available with -LA (Locking Lead) Option

**ALSO AVAILABLE**

\*Available with –LA  
(Locking Lead) Option

**ALSO  
AVAILABLE**

Elevated Right  
Angle option.  
Call Samtec.



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

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