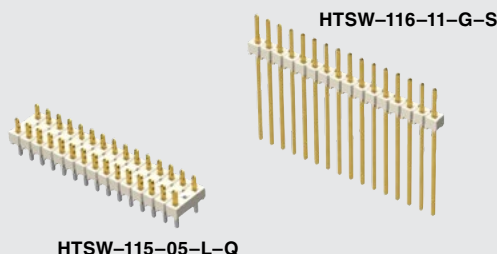




(2.54 mm) .100"



TSW-209-09-F-S-RA

# THROUGH-HOLE .025" SQ POST HEADER

## Board Mates:

SSW, SSQ, SSM, ESW, ESQ, BCS, BSW, CES, SLW

## Cable Mates:

IDSD, IDSS, SMSD, SMSS

## SPECIFICATIONS

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

### Insulator Material:

TSW: Black Glass Filled Polyester

HTSW: Natural Liquid

Crystall Polymer

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over 50 μm (1.27 μm) 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

400 VAC mated with CES

RoHS Compliant: Yes

Lead-Free Solderable:

HTSW: Yes

TSW: No, Lead Wave Only

## TYPE STRIP

TSW = Standard Strip

HTSW = Hi-Temp Strip

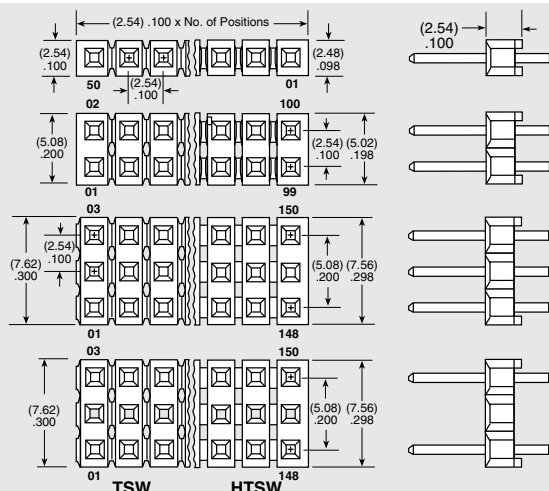
## PIN CENTERS

-1 = .100" (2.54 mm) Centers, All Positions Filled

-2 = .200" (5.08 mm) Centers, Every Other Position Filled

## NO. PINS PER ROW

### Straight Pin Versions



-S

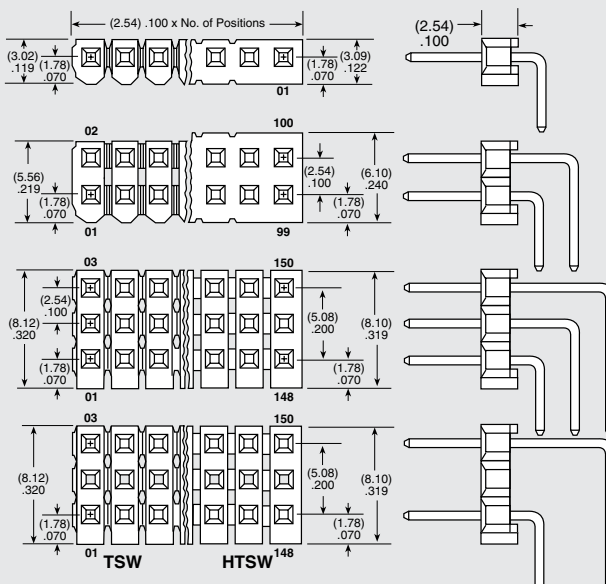
-D

-T

-Q

01  
thru  
50  
= .100" (2.54 mm)  
Center Version

### Right-Angle Versions



-S

-D

-T

-Q

02  
thru  
25  
= .200" (5.08 mm)  
Center Version

### CURRENT RATING (PER PIN)

#### TSW mated with

| ESW   | SSW   | SLW   | SSQ   | SSM   | BCS   | SNT   |
|-------|-------|-------|-------|-------|-------|-------|
| 5.2 A | 5.7 A | 5.2 A | 6.3 A | 5.2 A | 4.6 A | 4.3 A |

2 POSITIONS POWERED

## RECOGNITIONS

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594

### APPLICATIONS

BCS TSW



HORIZONTAL

## ALSO AVAILABLE (MOQ Required)

- Other platings
- Contact Samtec.

### Note:

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

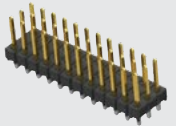
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[WWW.SAMTEC.COM](http://WWW.SAMTEC.COM)

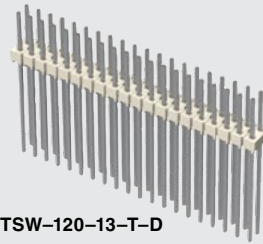
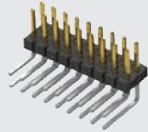
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TSW-109-10-F-D-RA



TSW-112-07-G-T



HTSW-120-13-T-D



TSW-114-16-G-S-RE

## TSW, HTSW SERIES

## LEAD STYLE

## PLATING OPTION

## ROW OPTION

## OTHER OPTIONS

## -F

= Gold flash on post, Matte Tin on tail

## -L

= 10  $\mu$ " (0.25  $\mu$ m) Gold on post, Matte Tin on tail

## -G

= 10  $\mu$ " (0.25  $\mu$ m) Gold on post, Gold flash on balance

## -T

= Matte Tin

## OTHER SOLUTIONS

- Elevated Right-angle option
- Shunts
- Contact Samtec

## -S

= Single Row

## -D

= Double Row

## -T

= Triple Row

## -Q

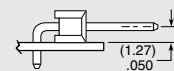
= Double Row (5.08 mm) .200" row space

## -RA or -RE

= Right-angle

## -NA

= Right-angle (using straight body for coplanar mating with SSW-RA series)



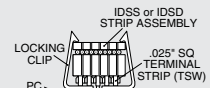
## -LL

= 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 mm  $\pm$  0.03 mm) .040"  $\pm$  .001"

## -LC

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



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

## -LA

= -RA Option with -LL Option

## -"XXX"

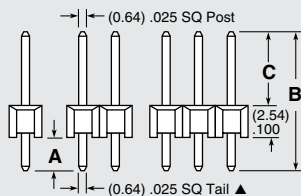
= Polarized Position

## 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  | (5.84)<br>.230  |
| * -10 | (12.70)<br>.500 | (21.08)<br>.830  |                 |
| * -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 | (7.87)<br>.310  | (18.54)<br>.730  | (13.21)<br>.520 |
| * -16 | (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>.710  | (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 &amp; -42 available with HTSW only.

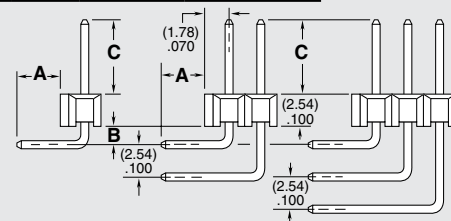
▲ Except: Style -26 (0.46) .018 DIA Tail

## 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) |  |
|----------------|-----------------|----------------|-----------------|--|------------------|--|
|                | A               | C              | A               |  | A                |  |
| * -08          | (2.29)<br>.090  |                | (2.29)<br>.090  |  | (2.29)<br>.090   |  |
| * -09          | (7.37)<br>.290  |                | (7.37)<br>.290  |  | (7.37)<br>.290   |  |
| * -10          | (9.91)<br>.390  | (5.84)<br>.230 | (9.91)<br>.390  |  | (9.91)<br>.390   |  |
| * -11          | (12.45)<br>.490 |                | (12.45)<br>.490 |  | (12.45)<br>.490  |  |
| * -12          | (14.99)<br>.590 |                | (14.99)<br>.590 |  | (14.99)<br>.590  |  |
| * -13          | (20.07)<br>.790 |                | (20.07)<br>.790 |  | N/A              |  |
| * -16          | (5.08)<br>.200  | (8.13)<br>.320 | (5.08)<br>.200  |  | (5.08)<br>.200   |  |
| * -21          | (25.15)<br>.990 | (5.84)<br>.230 | N/A             |  | N/A              |  |
| * -22          | (4.83)<br>.190  |                | (4.83)<br>.190  |  | (4.83)<br>.190   |  |
| * -25          | (2.54)<br>.100  | (8.13)<br>.320 | (2.54)<br>.100  |  | (2.54)<br>.100   |  |
| * -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



| LEAD STYLE | B              |
|------------|----------------|
| -RA        | (1.52)<br>.060 |
| -RE        | (4.06)<br>.160 |

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