



(2.54 mm) .100"

# THROUGH-HOLE .025" SQ POST HEADER

**Board Mates:**

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

**Cable Mates:**

IDSD, IDSS

**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 Crystal 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  | PIN CENTERS  | NO. PINS PER ROW  |
|---|--|---|
| <p><b>TSW</b> = Standard Strip</p> <p><b>HTSW</b> = Hi-Temp Strip</p> | <p><b>-1</b> = .100" (2.54 mm) Centers, All Positions Filled</p> | <p><b>-2</b> = .200" (5.08 mm) Centers, Every Other Position Filled</p> |

| 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)



**ALSO AVAILABLE (MOQ Required)**

- Other platings

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

**Straight Pin Versions**

**Right-Angle Versions**

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

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

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

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 μ" (0.25 μm) Gold on post, Matte Tin on tail

**-G**

= 10 μ" (0.25 μm) Gold on post, Gold flash on balance

**-T**

= Matte Tin

**-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)



(1.27) .050

**-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 ± 0.03 mm) .040" ± .001"

**-LC**

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



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

**-LA**

= -RA Option with -LL Option

**-"XXX"**

= Polarized Position

**OTHER SOLUTIONS**

- Elevated Right-angle option
- Shunts

**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 |                 | (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  |                  |
| * -24 |                  | (12.15)<br>.490  | (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  |                  |
| -27   | (25.40)<br>.1000 | (33.78)<br>.1330 | (5.84)<br>.230   |
| -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>.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) |
|----------------|-----------------|----------------|-----------------|------------------|
|                | 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             |                  |
| -28            | (17.53)<br>.690 |                | (17.53)<br>.690 |                  |
| -29            | (20.32)<br>.800 | (8.13)<br>.320 | N/A             | N/A              |
| -30            | (15.24)<br>.600 |                | (15.24)<br>.600 |                  |

| -RE LEAD STYLE | SINGLE A        | C              |
|----------------|-----------------|----------------|
| -09            | (4.83)<br>.190  |                |
| -10            | (7.37)<br>.290  |                |
| -11            | (9.91)<br>.390  | (5.84)<br>.230 |
| -12            | (12.45)<br>.490 |                |
| -13            | (17.53)<br>.690 |                |
| -16            | (2.54)<br>.100  | (8.13)<br>.320 |
| -21            | (22.61)<br>.890 |                |
| -22            | (2.29)<br>.090  | (5.84)<br>.230 |
| -27            | (20.07)<br>.790 |                |
| -28            | (14.99)<br>.590 |                |

\* Available with -LA (Locking Lead) Option



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

All parts within this catalog are built to Samtec's specifications. Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

## X-ON Electronics

Largest Supplier of Electrical and Electronic Components

*Click to view similar products for [Headers & Wire Housings](#) category:*

*Click to view products by [Samtec](#) manufacturer:*

Other Similar products are found below :

[95000-104TRLF](#) [10135584-644402LF](#) [DF62W-EP2022PCA](#) [95000-106TRLF](#) [DF62W-2022SCA](#) [DF62W-EP2022PC](#) [2203348](#) [DF62W-2022SC](#) [1084018](#) [1029039](#) [1084017](#) [802-10-012-10-002000](#) [1112640](#) [1112639](#) [000-34000](#) [0009482033](#) [0009507031](#) [57102-S06-03LF](#) [57202-S52-04LF](#) [PCN6-15S-2.5E](#) [0039019024](#) [58102-G61-06LF](#) [582553-1](#) [0009485154](#) [0009508121](#) [0022285053](#) [0050291907](#) [018731A](#) [LY20-4P-DT1-P1E-BR](#) [02.125.8002.8](#) [60101931](#) [60598-1 \(Cut Strip\)](#) [M1625-3R/100](#) [61062-3](#) [61082-181009](#) [636-1427](#) [638009-1](#) [641938-9](#) [641991-4](#) [644168-1](#) [647662-1](#) [65039-019ELF](#) [65817-002LF](#) [65817-015LF](#) [65863-015LF](#) [66207-023LF](#) [67016-026LF](#) [67046-001LF](#) [67095-007LF](#) [67230-005LF](#)