

# THROUGH-HOLE .025" SQ POST HEADER

(2.54 mm) .100" PITCH • TSW/HTSW SERIES



## TSW/HTSW

### Board Mates:

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

### Cable Mates:

IDSD, IDSS

## SPECIFICATIONS

### Insulator Material:

TSW: PBT

HTSW: Natural LCP

### Terminal Material:

Phosphor Bronze

### Plating:

Au or Sn over 50  $\mu$ " (1.27  $\mu$ m) 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

### Lead-Free Solderable:

HTSW: Yes

TSW: No, Lead Wave Only

### 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

## SERIES

**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

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

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

## LEAD STYLE

Specify  
LEAD STYLE  
from chart



TSW

HTSW

## Straight Pin Versions

### STRAIGHT PIN VERSIONS

| LEAD STYLE | A             | B            | C            |
|------------|---------------|--------------|--------------|
| *-05       | (8.51) .335   | (3.30) .130  | (2.67) .105  |
| *-06       | (7.62) .300   | (2.41) .095  | (2.67) .105  |
| *-07       | (10.92) .430  | (2.54) .100  |              |
| *-08       | (13.46) .530  | (5.08) .200  |              |
| -09        | (18.54) .730  | (10.16) .400 |              |
| -10        | (21.08) .830  | (12.70) .500 | (5.84) .230  |
| -11        | (23.62) .930  | (15.24) .600 |              |
| -12        | (26.16) 1.030 | (17.78) .700 |              |
| -13        | (31.24) 1.230 | (22.86) .900 |              |
| -14        | (13.46) .530  | (2.79) .110  | (8.13) .320  |
| *-15       | (18.54) .730  | (7.87) .310  | (8.13) .320  |
| *-16       |               |              |              |
| *-17       | (21.08) .830  | (2.79) .110  | (15.74) .620 |
| *-18       | (23.62) .930  |              | (18.29) .720 |

\* Available with -LL (Locking Lead) Option

Specify -07 for best mate with IDXX Series IDC Cable

### STRAIGHT PIN VERSIONS

| LEAD STYLE | A             | B             | C             |
|------------|---------------|---------------|---------------|
| *-19       | (26.16) 1.030 | (2.79) .110   | (20.83) .820  |
| *-20       | (31.24) 1.230 |               | (25.91) 1.020 |
| *-21       | (36.32) 1.430 | (2.79) .110   | (30.99) 1.220 |
| *-22       | (16.00) .630  | (7.62) .300   | (5.84) .230   |
| *-23       | (11.30) .445  | (2.92) .115   | (6.73) .265   |
| *-24       | (12.15) .480  |               | (8.13) .320   |
| *-25       | (16.00) .630  | (5.33) .210   |               |
| ▲-26       | (11.58) .456  | (3.20) .126   | (5.84) .230   |
| -27        | (33.78) 1.330 | (25.40) 1.000 |               |
| -28        | (28.70) 1.130 | (20.32) .800  |               |
| -29        | (33.78) 1.330 | (23.11) .910  | (8.13) .320   |
| -30        | (28.70) 1.130 | (18.03) .710  |               |
| +--41      | (9.27) .365   | (0.89) .035   | (5.84) .230   |
| +--42      | (11.94) .470  | (1.27) .050   | (8.13) .320   |

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

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

## ALSO AVAILABLE

Other Platings  
(MOQ Required)

## OTHER SOLUTIONS

Elevated Right-angle option  
Shunts

### Note:

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



## PLATING OPTION

**-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

## ROW OPTION

**-S**  
= Single Row

**-D**  
= Double Row

**-T**  
= Triple Row

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

## OTHER OPTION

**-RA or -RE**  
= Right-angle

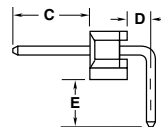
**-NA**  
= Right-angle  
(Using straight body for coplanar mating with SSW-RA series)

**-LL**  
= Locking Lead  
See charts for available styles.  
Not available 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 & -22 only)  
(Requires 4 pin minimum)  
(Not available with T, -Q, -RA or -RE)

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

**-"XXX"**  
= Polarized Position



## Right-Angle Versions

| LEAD STYLE | D           |
|------------|-------------|
| -RA        | (1.52) .060 |
| -RE        | (4.06) .160 |

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

| RIGHT-ANGLE VERSIONS |             |              |                |                     |
|----------------------|-------------|--------------|----------------|---------------------|
| -RA<br>LEAD<br>STYLE | SINGLE (-S) |              | DOUBLE<br>(-D) | TRIPLE<br>(-T & -Q) |
|                      | C           | E            | E              | E                   |
| - 08                 | (5.84) .230 | (2.29) .090  | (2.29) .090    | (2.29) .090         |
| - 09                 |             | (7.37) .290  | (7.37) .290    | (7.37) .290         |
| -10                  |             | (9.91) .390  | (9.91) .390    | (9.91) .390         |
| -11                  |             | (12.45) .490 | (12.45) .490   | (12.45) .490        |
| -12                  |             | (14.99) .590 | (14.99) .590   | (14.99) .590        |
| -13                  |             | (20.07) .790 | (20.07) .790   | N/A                 |
| *-16                 | (8.13) .320 | (5.08) .200  | (5.08) .200    | (5.08) .200         |
| - 21                 | (5.84) .230 | (25.15) .990 | N/A            | N/A                 |
| *- 22                |             | (4.83) .190  | (4.83) .190    | (4.83) .190         |
| *- 25                | (8.13) .320 | (2.54) .100  | (2.54) .100    | (2.54) .100         |
| - 27                 | (5.84) .230 | (22.61) .890 | N/A            | N/A                 |
| - 28                 |             | (17.53) .690 | (17.53) .690   |                     |
| - 29                 | (8.13) .320 | (20.32) .800 | N/A            |                     |
| - 30                 |             | (15.24) .600 | (15.24) .600   |                     |

\* Available with -LA (Locking Lead) Option

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Samtec:](#)

[TSW-106-08-F-T-RA](#)