



(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 or 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

| 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



ALSO AVAILABLE
(MOQ Required)

- Other platings

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

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

Straight Pin Versions

Right-Angle Versions

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

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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 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

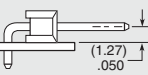
= Triple Row

-Q

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

-RA or -RE

= Right-angle



-LL

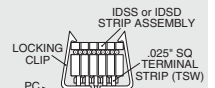
= Locking Lead



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

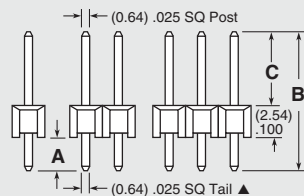
- Elevated Right-angle option
- Shunts

Straight Pin Versions

(Specify "LEAD STYLE" from chart)

| STYLE | A | B | C |
|-------|-----------------|-------------------|-----------------|
| * -05 | (3.30) .130 | (8.51) .335 | (2.67) .105 |
| * -06 | (2.41) .095 | (7.62) .300 | (2.67) .105 |
| * -07 | (2.54) .100 | (10.92) .430 | |
| * -08 | (5.08) .200 | (13.46) .530 | |
| * -09 | (10.16) .400 | (18.54) .730 | (5.84) .230 |
| * -10 | (12.70) .500 | (21.08) .830 | |
| * -11 | (15.24) .600 | (23.62) .930 | |
| * -12 | (17.78) .700 | (26.16) .1.030 | |
| * -13 | (22.86) .900 | (31.24) .1.230 | |
| * -14 | (2.79) .110 | (13.46) .530 | (8.13) .320 |
| * -15 | | (18.54) .730 | (13.21) .520 |
| * -16 | (7.87) .310 | | (8.13) .320 |
| * -17 | (2.79) .110 | (21.08) .830 | (15.74) .620 |

* Available with -LL (Locking Lead) Option



Specify -07 for best mate with IDXX Series IDC Cable

| STYLE | A | B | C |
|-------|-------------------|-------------------|-------------------|
| * -18 | | (23.62) .930 | (18.29) .720 |
| * -19 | (2.79) .110 | (26.16) .1.030 | (20.83) .820 |
| * -20 | | (31.24) .1.230 | (25.91) .1.020 |
| * -21 | | (36.32) .1.430 | (30.99) .1.220 |
| * -22 | (7.62) .300 | (16.00) .630 | (5.84) .230 |
| * -23 | (2.92) .115 | (11.30) .445 | |
| * -24 | | (12.15) .490 | (6.73) .265 |
| * -25 | (5.33) .210 | (16.00) .630 | (8.13) .320 |
| * -26 | (3.20) .126 | (11.58) .456 | |
| * -27 | (25.40) .1.000 | (33.78) .1.330 | (5.84) .230 |
| * -28 | (20.32) .800 | (28.70) .1.130 | |
| * -29 | (23.11) .910 | (33.78) .1.330 | (8.13) .320 |
| * -30 | (18.03) .710 | (28.70) .1.130 | |
| * -41 | (0.89) .035 | (9.27) .365 | (5.84) .230 |
| * -42 | (1.27) .050 | (11.94) .470 | (8.13) .320 |

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

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

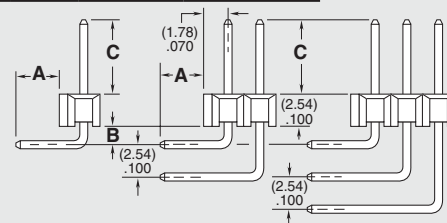
Right-Angle Versions

(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) .090 | | (2.29) .090 | (2.29) .090 |
| -09 | (7.37) .290 | | (7.37) .290 | (7.37) .290 |
| -10 | (9.91) .390 | (5.84) .230 | (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 | | | N/A |
| * -16 | (5.08) .200 | (8.13) .320 | (5.08) .200 | (5.08) .200 |
| * -21 | (25.15) .990 | (5.84) .230 | N/A | N/A |
| * -22 | (4.83) .190 | | (4.83) .190 | (4.83) .190 |
| * -25 | (2.54) .100 | (8.13) .320 | (2.54) .100 | (2.54) .100 |
| * -27 | (22.61) .890 | (5.84) .230 | N/A | N/A |
| * -28 | (17.53) .690 | | (17.53) .690 | |
| * -29 | (20.32) .800 | (8.13) .320 | N/A | N/A |
| -30 | (15.24) .600 | | (15.24) .600 | |

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

* Available with -LA (Locking Lead) Option



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

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