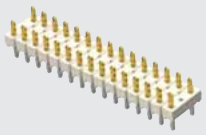
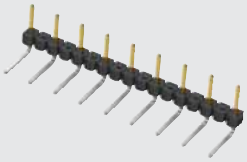
samtec

E.L.P.™
EXTENDED LIFE PRODUCT
10 year Mixed Flowing Gas with 30µ" Gold
Call Samtec for maximum mated cycles


HTSW–115–05–L–Q

HTSW–116–11–G–S


TSW–209–09–F–S–RA

**(2.54 mm) .100"**

# 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 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 50µ" (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: 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 |
| 1 POSITION POWERED PER ROW | | | | | | |

## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594
FILE NO: 090871_0_000

**APPLICATIONS**
BCS TSW
HORIZONTAL

## ALSO AVAILABLE (MOQ Required)

- Other platings
  Contact Samtec.

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

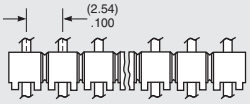
## TYPE STRIP

**TSW** = Standard Strip

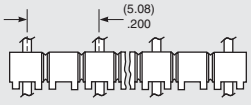
**HTSW** = Hi-Temp Strip

## PIN CENTERS

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




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

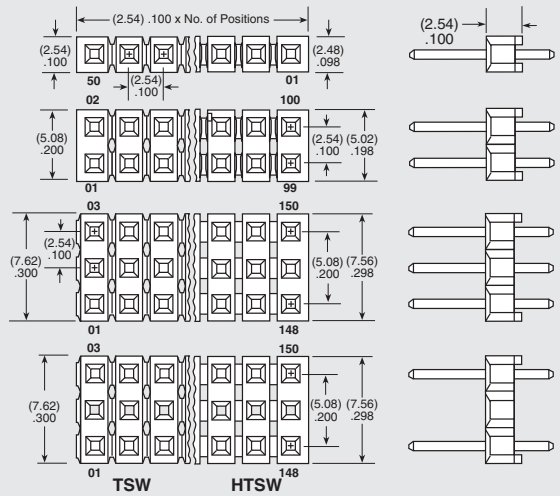



## NO. PINS PER ROW

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

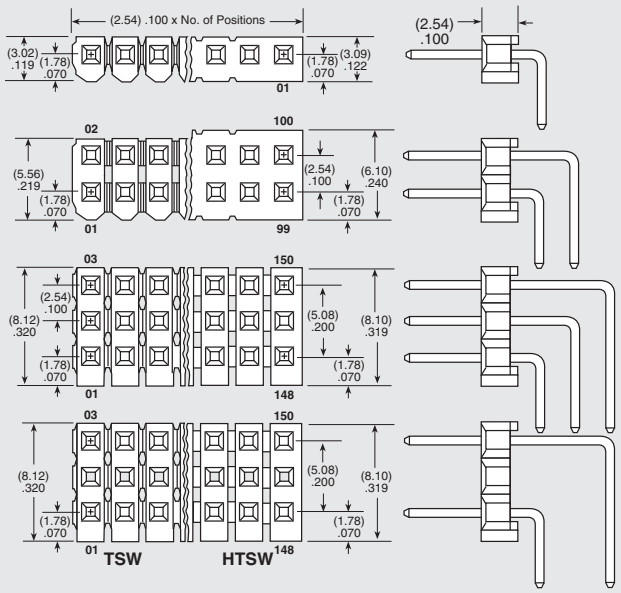
**02 thru 25**
= .200" (5.08 mm) Center Version

**Straight Pin Versions**




–S
–D
–T
–Q

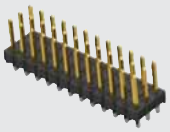
**Right Angle Versions**




–S
–D
–T
–Q

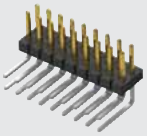


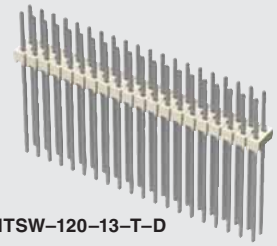
*Due to technical progress, all designs, specifications and components are subject to change without notice.*



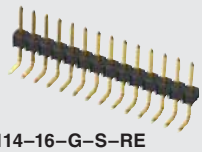
TSW–112–07–G–T

TSW–109–10–F–D–RA





HTSW–120–13–T–D



TSW–114–16–G–S–RE

# TSW, HTSW SERIES

## LEAD STYLE

## PLATING OPTION

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

**–L**
= 10µ" (0.25 µm) Gold on post, Matte Tin on tail

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

**–T**
= Matte Tin

### OTHER SOLUTIONS

- Elevated Right Angle option
- Shunts

Contact Samtec

## ROW OPTION

**–S**
= Single Row

**–D**
= Double Row

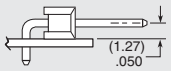
**–T**
= Triple Row

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

## OTHER OPTIONS

**– RA or –RE**
= Right Angle

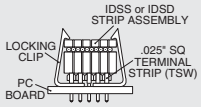
**–NA**
= Right Angle (using straight body for coplanar mating with SSW-RA series)




**–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 ± 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

## Straight Pin Versions
(Specify "LEAD STYLE" from chart)

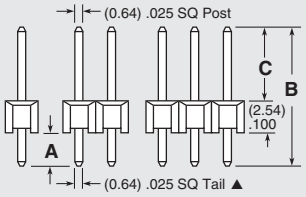
| | STYLE | A | B | C |
|---|---|---|---|---|
| * | – 05 | (3.30) .130 | (8.51) .335 | (2.67) .105 |
| * | – 06 | (2.41) .095 | (7.62) .300 | (2.67) .105 |
| * | – 07 | (2.54) .100 | (10.92) .430 | (5.84) .230 |
| * | – 08 | (5.08) .200 | (13.46) .530 | |
| | – 09 | (10.16) .400 | (18.54) .730 | |
| | – 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

| | STYLE | A | B | C |
|---|---|---|---|---|
| * | –18 | (2.79) .110 | (23.62) .930 | (18.29) .720 |
| * | –19 | | (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) .480 | (6.73) .265 |
| * | – 25 | (5.33) .210 | (16.00) .630 | (8.13) .320 |
| ▲ | – 26 | (3.20) .126 | (11.58) .456 | (5.84) .230 |
| | – 27 | (25.40) 1.000 | (33.78) 1.330 | |
| | – 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




Specify -07 for best mate with IDXX Series IDC Cable

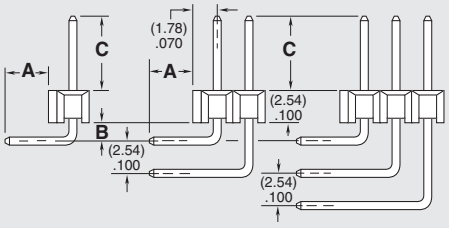
## Right Angle Versions
(Specify "LEAD STYLE" from chart and select –RA or –RE from other options)

| –RA LEAD STYLE | SINGLE (–S) A | SINGLE (–S) C | DOUBLE (–D) A | TRIPLE (–T & –Q) A |
|---|---|---|---|---|
| – 08 | (2.29) .090 | (5.84) .230 | (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 | (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 | |
| – 30 | (15.24) .600 | | (15.24) .600 | |

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