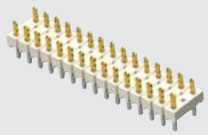
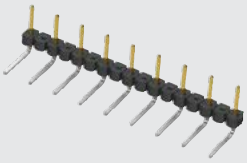
samtec

10 YEAR MFG WITH 30 µ" GOLD
EXTENDED LIFE PRODUCT
HIGH MATING 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

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 µ" (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

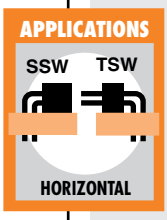
CURRENT RATING (PER PIN)						
TSW mated with						
ESW	SSW	SLW	SSQ	SSM	BCS	SNT
5.2 A	5.7 A	5.2 A	6.3 A	5.2 A	4.6 A	4.3 A
2 POSITIONS POWERED						

RECOGNITIONS

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

FILE NO. E111594

APPLICATIONS



ALSO AVAILABLE
(MOQ Required)

- Other platings

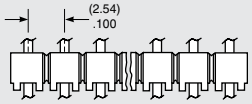
Note:
Some lengths, styles and options are non-standard, non-returnable.

TYPE STRIP – **PIN CENTERS** – **NO. PINS PER ROW**

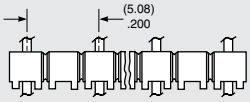
TSW = Standard Strip

HTSW = Hi-Temp Strip

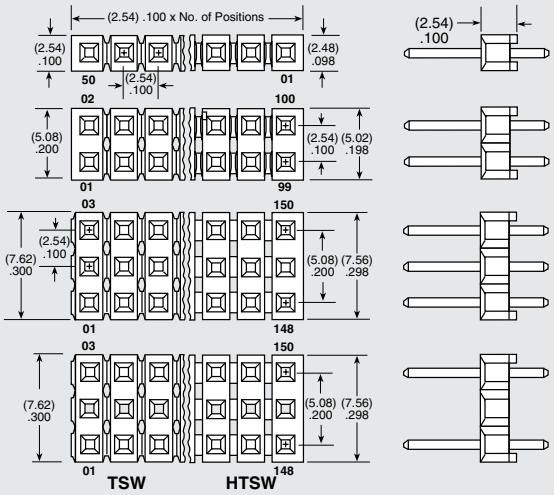
–1 = .100" (2.54 mm) Centers, All Positions Filled



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

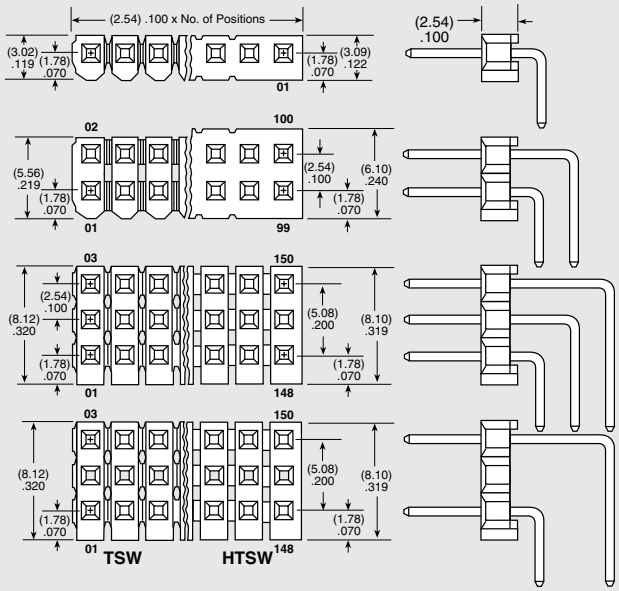


Straight Pin Versions



–S
–D
–T
–Q

Right-Angle Versions



–S
–D
–T
–Q

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

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

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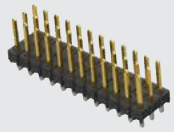
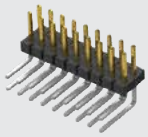
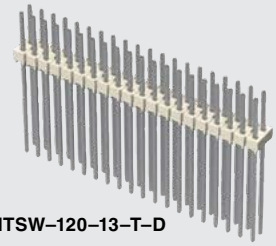


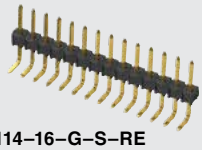
TSW–112–07–F–T

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
= 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

OTHER SOLUTIONS

- Elevated Right-angle option
- Shunts

ROW OPTION

–S
= Single Row

–D
= Double Row

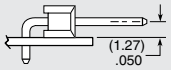
–T
= Triple Row

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

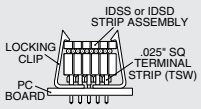
OTHER OPTIONS

– RA or –RE
= Right-angle

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



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



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

–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"

–LA
= –RA Option with –LL Option

–"XXX"
= Polarized Position

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

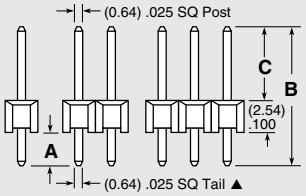
	STYLE	A	B	C
*	– 05	(3.30) .130	(8.51) .335	(2.67) .105
*	– 06	(2.41) .095	(7.62) .300	(2.67) .105
*	– 07	(2.54) .100	(10.92) .430	(5.84) .230
*	– 08	(5.08) .200	(13.46) .530	
	– 09	(10.16) .400	(18.54) .730	
	–10	(12.70) .500	(21.08) .830	
	–11	(15.24) .600	(23.62) .930	
	–12	(17.78) .700	(26.16) 1.030	
	–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

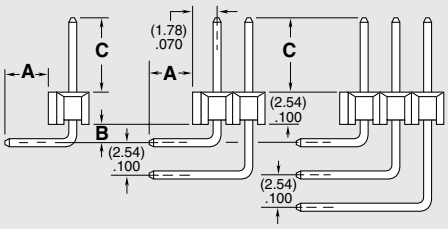
Right-Angle Versions
(Specify "LEAD STYLE" from chart and select –RA or –RE from other options)

	–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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