



(2.54 mm) .100"



TSW-209-09-F-S-RA

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

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

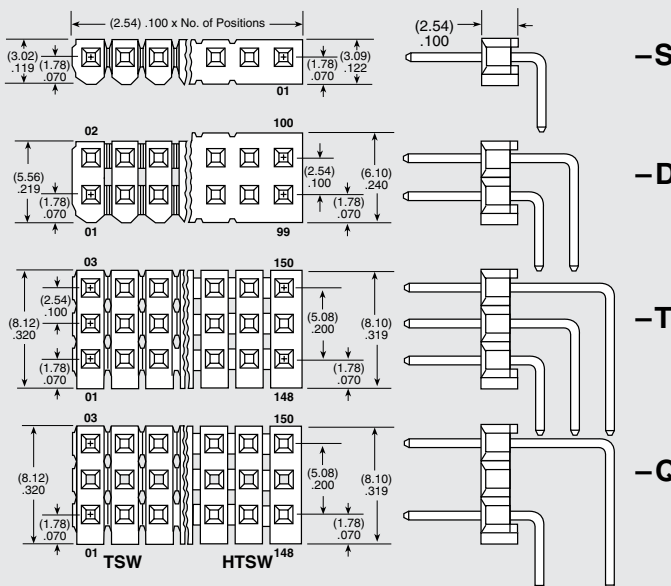
NO. PINS PER ROW

Straight Pin Versions



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

Right-Angle Versions



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

RECOGNITIONS

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



APPLICATIONS

SSW TSW



HORIZONTAL

ALSO AVAILABLE (MOQ Required)

- Other platings

Note:

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

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All parts within this catalog are built to Samtec's specifications.

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TSW-109-10-F-D-RA



TSW-112-07-F-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

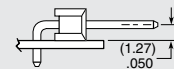
-Q

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

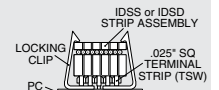
-RA or -RE

= Right-angle

-NA

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

-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

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	(7.87) .310	(18.54) .730	(13.21) .520
* -16	(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	(6.73) .265
* -24	(5.33) .210	(16.00) .630	(8.13) .320
* -25	(3.20) .126	(11.58) .456	
* -26	(25.40) .1.000	(33.78) .1.330	(5.84) .230
* -27	(20.32) .800	(28.70) .1.130	
* -28	(23.11) .910	(33.78) .1.330	(8.13) .320
* -29	(18.03) .710	(28.70) .1.130	
* -30	(0.89) .035	(9.27) .365	(5.84) .230
* -41	(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	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		(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	N/A		
* -29	(20.32) .800	(8.13) .320	N/A	N/A		
* -30	(15.24) .600		(15.24) .600	N/A		

* Available with -LA
(Locking Lead) Option

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

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[TSW-104-07-S-D-LL](#)