



(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.

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

WWW.SAMTEC.COM

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

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

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	(12.15) .480	(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

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

WWW.SAMTEC.COM

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

Customer specific requirements must be approved by Samtec and identified in a Samtec customer-specific drawing to apply.

Mouser Electronics

Authorized Distributor

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

[Samtec:](#)

[TSW-103-25-S-D-RA](#)