



**THE DATASHEET OF
SSW-103-22-L-D-VS**



DO NOT SCALE FROM THIS PRINT

SSW-1XX-22-XXX-X-VS-XX-X-XX



-S: SINGLE ROW



-D: DOUBLE ROW

FIG 1
-VS: VERTICAL SURFACE MOUNT



-D: DOUBLE ROW



-S: SINGLE ROW

No OF POSITIONS
-02 THRU -50

LEAD STYLE
-22 (USE C-17-02-X)

PLATING SPECIFICATIONS

- G: GOLD, 20µ" Au / 50µ" Ni MIN ON CONTACT, 3µ" Au / 50µ" Ni MIN ON TAIL
- S: SELECTIVE, 30µ" Au / 50µ" Ni MIN ON CONTACT, MATTE TIN TAIL
- H: HEAVY GOLD 30µ" Au / 50µ" Ni MIN ON CONTACT, 3µ" Au / 50µ" Ni MIN ON TAIL
- F: FLASH SELECTIVE, 3µ" Au / 50µ" Ni MIN ON CONTACT, MATTE TIN TAIL
- STL: SELECTIVE, 30µ" Au / 50µ" Ni MIN ON CONTACT AREA, TIN /LEAD (90/10 +/-5%) TAIL
- SM: SELECTIVE, 30µ" Au / 50µ" Ni MIN ON CONTACT, MATTE TIN TAIL
- FM: FLASH SELECTIVE, 3µ" Au / 50µ" Ni MIN ON CONTACT, MATTE TIN TAIL (-VS OPTION ONLY)
- L: LIGHT SELECTIVE, 10µ" Au / 50µ" Ni MIN ON CONTACT AREA, MATTE TIN TAIL

BODY SPECIFICATION

- S: SINGLE (USE SSW-XX-S, SEE FIG 1)
- D: DOUBLE (USE SSW-XX-D, SEE FIG 1)

OPTION

-TR: TAPE & REEL
(AVAILABLE FOR POSITIONS -02 THRU -28, -VS OPTION ONLY)

OPTION

-P: PICK AND PLACE (5 POS MIN)
(SEE FIG 5, SHT 3)
(USE LMP-02 FOR -D OPTION)
(USE PPP-12 FOR -S OPTION)

-K: PAD (3 POS MIN)
(SEE FIG 6, SHT 3)

-N: NOTCH (SEE FIG 7, SHT 4, POSITIONS 05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36 ONLY)
(ONLY AVAILABLE IN -D ROW, -VS OPTION)
(USE NSW-XX-D-N-XX BODY, SEE TABLE 2)
(NOT AVAILABLE WITH THE -P OPTION)

POLARIZING OPTION

INDICATE POS (SEE FIG 4, SHT 2)
(NOT AVAILABLE FOR ALL POSITIONS ON SINGLE ROW WITH (-P) OPTION)
(SEE FIG 8, SHT 2)

OPTION

-VS: VERTICAL SURFACE MOUNT (SEE FIG 1)



NOTES:

1. Ⓢ REPRESENTS A CONTROL PLAN CRITICAL DIMENSION.
2. MAXIMUM CUT FLASH: .015 [.38] WITH NO FLASH BELOW STANDOFFS OR IN CONTACT HOLES.
3. MAXIMUM ALLOWABLE BOW: .003 [.08] INCH/INCH.
4. MAXIMUM ALLOWABLE SWAY: 2° EITHER DIRECTION.
5. MAXIMUM ALLOWABLE VARIATION BETWEEN ROWS: .010 [.25].
6. "END WALLS" AFTER CUTTING SHOULD BE .020±.003 [.51±.08].
7. SHEAR TAILS TO DIMENSION SHOWN, BURR ALLOWED ON TOP SIDE (MOLD SIDE) TO .005 [.13] MAX
8. POSITIONS -05 THROUGH -50 TO BE PACKAGED INTUBES;
POSITIONS -02 THROUGH -04 TO BE LAYER PACKAGED.
9. MEASURED AT BEND RADIUS, NOT AT END OF PIN.
10. MINIMUM CONTACT PUSHOUT FORCE: 1.5 lbs.
11. POLARIZED CORNER OF PPP-12 IS TO BE ORIENTED TOWARD POSITION 1.
12. SINGLE ROW SURFACE MOUNT PARTS: FOR ODD POSITIONS, LOSE ONE POSITION PER CUT, FOR EVEN POSITIONS, LOSE TWO POSITIONS PER CUT.

UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES.

TOLERANCES ARE:

| DECIMALS | ANGLES |
|-----------------------|--------|
| .XX: ±.01 [0.3] | 2° |
| .XXX: ±.005 [0.13] | |
| .XXXX: ±.0020 [0.051] | |

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520 PARK EAST BLVD, NEW ALBANY, IN 47150
PHONE: 812-944-6733 FAX: 812-948-5047
e-Mail: info@SAMTEC.com code 55322

MATERIAL: DO NOT SCALE DRAWING SHEET SCALE: 2:1
INSULATOR: SINGLE & DOUBLE ROW: LCP, UL 94 VO
TRIPLE ROW: PCT, UL 94 VO
COLOR: BLACK

TERMINAL: PHOSPHOR BRONZE

F:\DWG\MISC\MKTG\SSW-1XX-22-XXX-X-VS-XX-X-XX-MKT.SLDDRW

DESCRIPTION:
.100 [2.54] SURFACE MOUNT ASSEMBLY

DWG. NO.
SSW-1XX-22-XXX-X-VS-XX-X-XX

BY: PLUMMER 01/20/97 SHEET 1 OF 4



FIG 4
POLARIZATION LOCATION
 INSERT PK-15-N INTO SPECIFIED POS AND BREAK OFF TAB



EVEN POSITIONS
 $X = (\text{NO OF POS} / 2), Y = X+1$

ODD POSITIONS
 $X = ((\text{NO OF POS} - 1) / 2), Y = X+1$

FIG 8
 (POLARIZATION NOT AVAILABLE IN POSITION X & Y WITH -P OPTION)

| | | |
|--|---|----------------------|
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| | DESCRIPTION: .100 [2.54] SURFACE MOUNT ASSEMBLY DWG. NO. SSW-1XX-22-XXX-X-VS-XX-X-XX | BY: PLUMMER 01/20/97 |
| | | SHEET 2 OF 4 |



-S: SINGLE ROW
(SEE NOTE 11)

FOR ODD: "A" = ("R"/2) -.2475 [6.287] ± .020 [.51]
FOR EVEN: "A" = ("R"/2) -.1975 [5.027] ± .020 [.51]



-D: DOUBLE ROW

"C" = ("R"/2) -.1125 [2.858] ± .020 [.51]

FIG. 5
-P: PICK & PLACE PAD OPTION



-S: SINGLE ROW

NOTE: "R" = USED MEASURED DIMENSION (REF)
"S" = {"R" / 2 - .069 [1.75]} ± .020 [.51]



-D: DOUBLE ROW

NOTE: "R" = USED MEASURED DIMENSION (REF)
"S" = {"R" / 2 - .128 [3.25]} ± .020 [.51]

FIG. 6
-K: PAD OPTION

F:\DWG\MISC\MKTG\SSW-1XX-22-XXX-X-VS-XX-X-XX-MKT.SLDDRW

| | | |
|---|---|--|
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| | <p>DESCRIPTION:</p> <p>.100 [2.54] SURFACE MOUNT ASSEMBLY</p> | <p>DWG. NO.</p> <p>SSW-1XX-22-XXX-X-VS-XX-X-XX</p> |
| <p>BY: PLUMMER 01/20/97</p> | <p>SHEET 3 OF 4</p> | |



-S

-S-K

-S-P



-D



-D-K



-D-P



-N

PACKAGING VIEWS

TABLE 1
(SEE NOTE 8)

| ROW | TUBE | PLUG |
|------|---------------|-------|
| -S | PT-1-24-02-17 | TP-09 |
| -D | PT-1-24-03-15 | TP-03 |
| -D-P | PT-1-24-06-29 | TP-03 |
| -S-P | PT-1-24-02-60 | TP-03 |
| -D-K | PT-1-24-06-29 | TP-03 |
| -S-K | PT-1-24-02-60 | TP-03 |
| -N | PT-1-24-06-29 | TP-03 |

| TABLE 2 | |
|-------------|---------------|
| POS PER ROW | NSW-XX-D-N-XX |
| 5 | NSW-47-D-N-05 |
| 7 | NSW-47-D-N-07 |
| 8 | NSW-44-D-N-08 |
| 10 | NSW-43-D-N-10 |
| 12 | NSW-38-D-N-12 |
| 13 | NSW-41-D-N-13 |
| 15 | NSW-47-D-N-15 |
| 17 | NSW-35-D-N-17 |
| 20 | NSW-20-D-N |
| 25 | NSW-25-D-N |
| 32 | NSW-32-D-N |
| 36 | NSW-36-D-N |



FIG. 7
NOTCH OPTION
DIFFERENT AS SHOWN, OTHERWISE SAME AS FIG 1

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SHEET 4 OF 4

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