

(2.54 mm) .100"

TSS, HTSS, ZSS SERIES

# SHROUDED .025" SQ POST HEADERS

**Mates with:**

SSW, SSQ, ESW, ESQ, SSM, BCS

**SPECIFICATIONS**

For complete specifications see [www.samtec.com?TSS](http://www.samtec.com?TSS), [www.samtec.com?HTSS](http://www.samtec.com?HTSS) or [www.samtec.com?ZSS](http://www.samtec.com?ZSS)

**Insulator Material:**

TSS, ZSS: Black Glass

Filled Polyester

HTSS: Natural PCT

**Insulation Resistance:**

5000 MΩ min

**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

**Flammability Rating:**

UL 94V-O

**Withstanding Voltage:**

1000 VRMS

**RoHS Compliant:** Yes

**PROCESSING**
**Lead-Free Solderable:**

HTSS: Yes

TSS, ZSS: Wave Only

**SMT Lead Coplanarity:**

(0.15 mm) .006" max\*

\*(.004" stencil solution

may be available; contact

IPG@samtec.com)

**RECOGNITIONS**

For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)


**OTHER SOLUTIONS**

- Shrouded IDC headers and stackers to mate with IDSD Series. See TST, HTST and ZST Series.

**ALSO AVAILABLE (MOQ Required)**

- Other sizes
- Other platings
- Alignment Pins
- Single Row
- Locking Leads
- Polarized

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

| TYPE STRIP                                 | 1 | NO. PINS PER ROW                                                          | LEAD STYLE                     | PLATING OPTION                                                                 | ROW OPTION                                                                       |
|--------------------------------------------|---|---------------------------------------------------------------------------|--------------------------------|--------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <b>TSS</b><br>= Connector Strip            |   | <b>03</b><br>(TSS only)                                                   | Specify LEAD STYLE from chart. | <b>-F</b><br>= Gold flash on post, Matte Tin on tail<br>(Not available on -DV) | <b>-D</b><br>= Double Row Through-hole<br>(lead style -01, -02 & -03 only)       |
| <b>HTSS</b><br>= High Temp Connector Strip |   | <b>05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36</b><br>(Standard sizes) |                                | <b>-L</b><br>= 10 μ" (0.25 μm)<br>Gold on post, Matte Tin on tail              | <b>-DV</b><br>= Double Row Surface Mount<br>(lead style -01 only)<br>(HTSS only) |
|                                            |   |                                                                           |                                | <b>-T</b><br>= Matte Tin                                                       | <b>-D-RA</b><br>= Double Row Right-angle<br>(lead style -04 & -05 only)          |

  

| LEAD STYLE | T/H (A)      |
|------------|--------------|
| -01        | (2.92) .115  |
| -02        | (4.19) .165  |
| -03        | (14.35) .565 |

  

| LEAD STYLE | RIGHT ANGLE (B) |
|------------|-----------------|
| -04        | (3.30) .130     |
| -05        | (5.84) .230     |

  

| ZSS        | 1             | NO. PINS PER ROW                                                              | LEAD STYLE                                                        | PLATING OPTION                                       | D                                | BODY HEIGHT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
|------------|---------------|-------------------------------------------------------------------------------|-------------------------------------------------------------------|------------------------------------------------------|----------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|---------|-----------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|--------------|--------------|-----|---------------|--------------|-----|---------------|---------------|-----|---------------|---------------|-----|---------------|---------------|-----|---------------|---------------|
|            |               | <b>03, 05, 07, 08, 10, 12, 13, 15, 17, 20, 25, 32, 36</b><br>(Standard sizes) | Specify LEAD STYLE from chart.                                    | <b>-F</b><br>= Gold flash on post, Matte Tin on tail | <b>- "XXXX"</b><br>= Body Height | <table border="1"> <thead> <tr> <th>LEAD STYLE</th> <th>C (OAL)</th> <th>MAX BODY HEIGHT</th> </tr> </thead> <tbody> <tr> <td>-01</td> <td>(16.00) .630</td> <td>(13.72) .540</td> </tr> <tr> <td>-02</td> <td>(18.54) .730</td> <td>(16.26) .640</td> </tr> <tr> <td>-03</td> <td>(21.08) .830</td> <td>(18.80) .740</td> </tr> <tr> <td>-04</td> <td>(23.62) .930</td> <td>(21.34) .840</td> </tr> <tr> <td>-05</td> <td>(26.16) 1.030</td> <td>(23.88) .940</td> </tr> <tr> <td>-06</td> <td>(28.70) 1.130</td> <td>(26.42) 1.040</td> </tr> <tr> <td>-07</td> <td>(31.24) 1.230</td> <td>(28.96) 1.140</td> </tr> <tr> <td>-08</td> <td>(33.78) 1.330</td> <td>(31.50) 1.240</td> </tr> <tr> <td>-09</td> <td>(36.32) 1.430</td> <td>(34.04) 1.340</td> </tr> </tbody> </table> | LEAD STYLE | C (OAL) | MAX BODY HEIGHT | -01 | (16.00) .630 | (13.72) .540 | -02 | (18.54) .730 | (16.26) .640 | -03 | (21.08) .830 | (18.80) .740 | -04 | (23.62) .930 | (21.34) .840 | -05 | (26.16) 1.030 | (23.88) .940 | -06 | (28.70) 1.130 | (26.42) 1.040 | -07 | (31.24) 1.230 | (28.96) 1.140 | -08 | (33.78) 1.330 | (31.50) 1.240 | -09 | (36.32) 1.430 | (34.04) 1.340 |
| LEAD STYLE | C (OAL)       | MAX BODY HEIGHT                                                               |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -01        | (16.00) .630  | (13.72) .540                                                                  |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -02        | (18.54) .730  | (16.26) .640                                                                  |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -03        | (21.08) .830  | (18.80) .740                                                                  |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -04        | (23.62) .930  | (21.34) .840                                                                  |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -05        | (26.16) 1.030 | (23.88) .940                                                                  |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -06        | (28.70) 1.130 | (26.42) 1.040                                                                 |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -07        | (31.24) 1.230 | (28.96) 1.140                                                                 |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -08        | (33.78) 1.330 | (31.50) 1.240                                                                 |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
| -09        | (36.32) 1.430 | (34.04) 1.340                                                                 |                                                                   |                                                      |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |
|            |               |                                                                               | <b>-L</b><br>= 10 μ" (0.25 μm)<br>Gold on post, Matte Tin on tail | <b>-T</b><br>= Matte Tin                             |                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |            |         |                 |     |              |              |     |              |              |     |              |              |     |              |              |     |               |              |     |               |               |     |               |               |     |               |               |     |               |               |

  

**Note:** For added mechanical stability, Samtec recommends mechanical board spacers be used in applications with gold or selective gold plated connectors. Contact ipg@samtec.com for more information.

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

[WWW.SAMTEC.COM](http://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.