

(2.54 mm) .100"

ESQ-110-44-T-D

ESQ-132-14-G-D

ESW-115-12-G-S

ESW, ESQ SERIES

# ELEVATED SOCKET

## Mates with:

TSW, MTSW, EW,  
MTLW, TSS, ZSS, TSM,  
DW, ZW, HW, TSSH, HTSS

## SPECIFICATIONS

For complete specifications  
see [www.samtec.com?ESW](http://www.samtec.com?ESW) or  
[www.samtec.com?ESQ](http://www.samtec.com?ESQ)

### Insulator Material:

Black Glass Filled Polyester

### Contact Material:

Phosphor Bronze

### Plating:

Au or Sn over  
50  $\mu$ " (1.27  $\mu$ m) Ni

### Current Rating (ESW/TSW):

5.2 A per pin

(2 pins powered)

### Current Rating (ESQ/TSW):

5.7 A per pin

(2 pins powered)

### Voltage Rating:

550 VAC mated with

TSW or ESQ

### Operating Temp Range:

-55 °C to +125 °C with Gold

-55 °C to +105 °C with Tin

### Insertion Depth:

(3.68 mm) .145" to

(6.35 mm) .250"

### Normal Force:

Standard = 125 grams (4.4 N)

### Max Cycles:

100 with 10  $\mu$ " (0.25  $\mu$ m) Au

### RoHS Compliant:

Yes

### Lead-Free Solderable:

Wave only

## RECOGNITIONS

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



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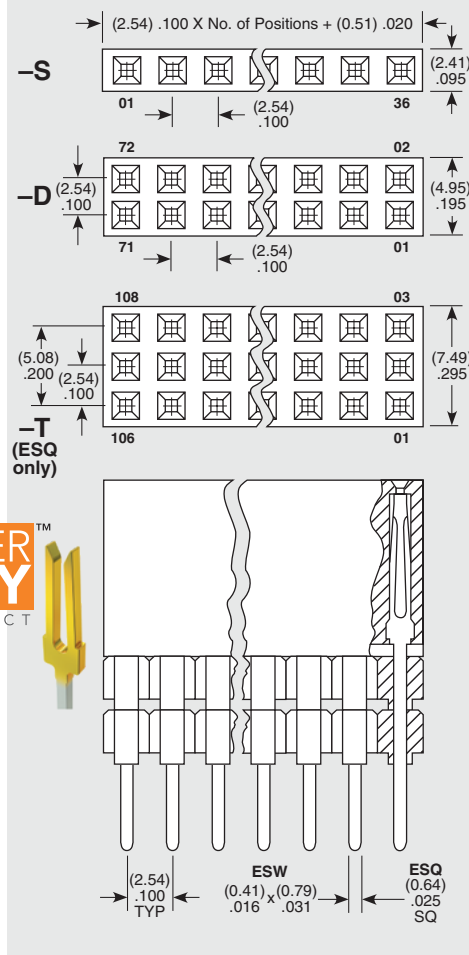


## ALSO AVAILABLE (MOQ Required)

- Other platings

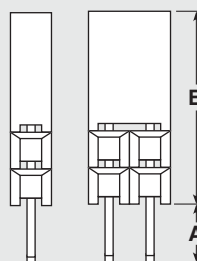
**Note:**  
Some lengths, styles and  
options are non-standard,  
non-returnable.

| TYPE STRIP           | 1 | NO. PINS PER ROW | LEAD STYLE                                                                                                                                                                                                 | PLATING OPTION                                                                       | ROW OPTION                                                                                                 | OTHER OPTION           |
|----------------------|---|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------|
| ESW<br>= Solder Tail | 1 | 1                | -L<br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold contact,<br>Matte Tin on tail<br><br>-G<br>= 20 $\mu$ " (0.51 $\mu$ m)<br>Gold contact,<br>Gold Flash on Balance<br><br>-T<br>= Matte Tin<br>(N/A w/LIF contact) | -S<br>= Single Row<br><br>-D<br>= Double Row<br><br>-T<br>= Triple Row<br>(ESQ only) | -LL<br>= Locking Lead<br><br><br><br>Two leads per strip crimped.<br>N/A with single row 1 or 2 positions. |                        |
| ESQ<br>= Square Tail |   |                  |                                                                                                                                                                                                            |                                                                                      |                                                                                                            |                        |
|                      |   |                  |                                                                                                                                                                                                            |                                                                                      |                                                                                                            |                        |
|                      |   |                  |                                                                                                                                                                                                            |                                                                                      |                                                                                                            |                        |
| 01 thru 36           |   |                  |                                                                                                                                                                                                            |                                                                                      |                                                                                                            | - "XXX"<br>= Polarized |

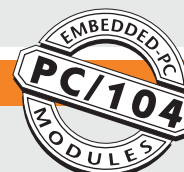


## Specify LEAD STYLE from chart below.

| STANDARD<br>INSERTION FORCE | LOW<br>INSERTION FORCE | A               | B               |
|-----------------------------|------------------------|-----------------|-----------------|
| - 12                        | - 37                   | (2.29)<br>.090  | (11.05)<br>.435 |
| - 13                        | - 38                   | (7.36)<br>.290  |                 |
| - 23                        | - 48                   | (4.83)<br>.190  | (13.59)<br>.535 |
| - 33                        | - 58                   | (2.29)<br>.090  | (16.13)<br>.635 |
| - 14                        | - 39                   | (12.19)<br>.480 | (11.05)<br>.435 |
| - 24                        | - 49                   | (9.65)<br>.380  | (13.59)<br>.535 |
| - 34                        | - 59                   | (7.11)<br>.280  | (16.13)<br>.635 |
| - 44                        | - 69                   | (4.57)<br>.180  | (18.67)<br>.735 |



## APPLICATIONS



| PC/104™ J1/P1 "Stackthrough" Connectors  |                |
|------------------------------------------|----------------|
| Standard Insertion Force                 | ESQ-132-14-G-D |
| Low Insertion Force                      | ESQ-132-39-G-D |
| PC/104™ J1 "Non-Stackthrough" Connectors |                |
| Standard Insertion Force                 | ESQ-132-12-G-D |
| Low Insertion Force                      | ESQ-132-37-G-D |
| PC/104™ J2/P2 "Stackthrough" Connectors  |                |
| Standard Insertion Force                 | ESQ-120-14-G-D |
| Low Insertion Force                      | ESQ-120-39-G-D |

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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.