

(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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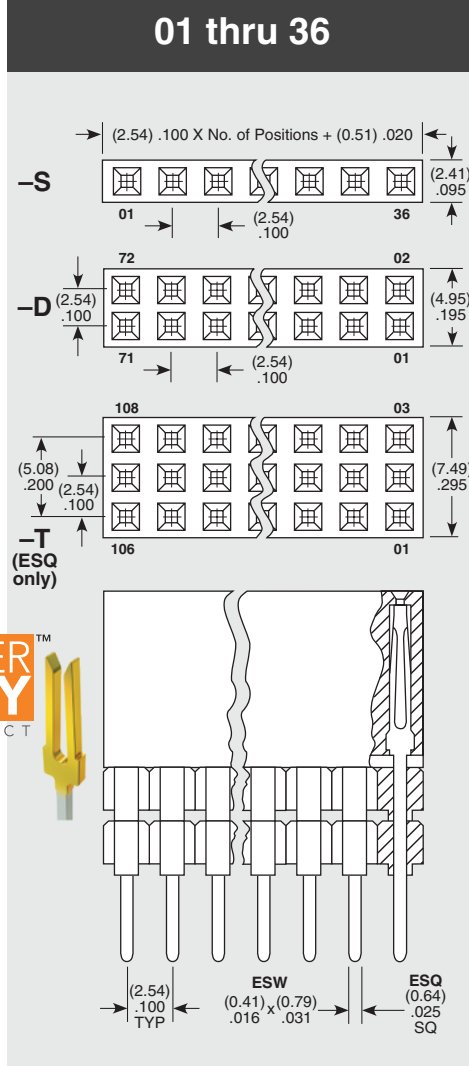
**TIGER  
BUY**  
CONTACT

**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                |
|-----------------------------|---|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------|-----------------------------|
| <b>ESW</b><br>= Solder Tail | 1 | 01 thru 36       | <b>-L</b><br>= 10 $\mu$ " (0.25 $\mu$ m)<br>Gold contact,<br>Matte Tin on tail<br><br><b>-G</b><br>= 20 $\mu$ " (0.51 $\mu$ m)<br>Gold contact,<br>Gold Flash on Balance<br><br><b>-T</b><br>= Matte Tin<br>(N/A w/LIF contact) | <b>-S</b><br>= Single Row<br><br><b>-D</b><br>= Double Row<br><br><b>-T</b><br>= Triple Row<br>(ESQ only) | <b>-LL</b><br>= Locking Lead<br><br><br><br>Two leads per strip crimped.<br>N/A with single row 1 or 2 positions. |                             |
| <b>ESQ</b><br>= Square Tail |   |                  |                                                                                                                                                                                                                                 |                                                                                                           |                                                                                                                   |                             |
|                             |   |                  |                                                                                                                                                                                                                                 |                                                                                                           |                                                                                                                   |                             |
|                             |   |                  |                                                                                                                                                                                                                                 |                                                                                                           |                                                                                                                   |                             |
|                             |   |                  |                                                                                                                                                                                                                                 |                                                                                                           |                                                                                                                   | <b>"XXX"</b><br>= Polarized |



## Specify LEAD STYLE from chart below.

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

## APPLICATIONS



(ESQ Series)

| 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.