samtec

EMBEDDED-PC PC/104 MODULES

(2.54 mm) .100"

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 or www.samtec.com?ESQ

**Insulator Material:**
Black Glass Filled Polyester
**Contact Material:**
Phosphor Bronze
**Plating:**
Au or Sn over
50 µ" (1.27 µm) 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 µ" (0.25 µm) Au
**RoHS Compliant:**
Yes
**Lead-Free Solderable:**
Wave only

## RECOGNITIONS

For complete scope of recognitions see www.samtec.com/quality

FILE NO. E111594

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 |
|---|---|---|---|---|---|---|

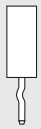
**TYPE STRIP**
- **ESW** = Solder Tail
- **ESQ** = Square Tail

**NO. PINS PER ROW**
- 01 thru 36

**PLATING OPTION**
- **–L** = 10 µ" (0.25 µm) Gold contact, Matte Tin on tail
- **–G** = 20 µ" (0.51 µm) Gold contact, Gold Flash on Balance
- **–T** = Matte Tin (N/A w/LIF contact)

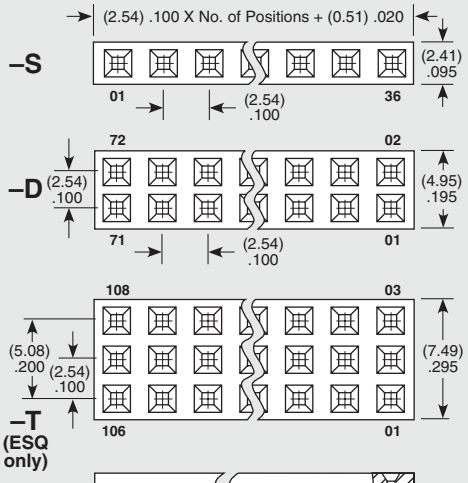
**ROW OPTION**
- **–S** = Single Row
- **–D** = Double Row
- **–T** = Triple Row (ESQ only)

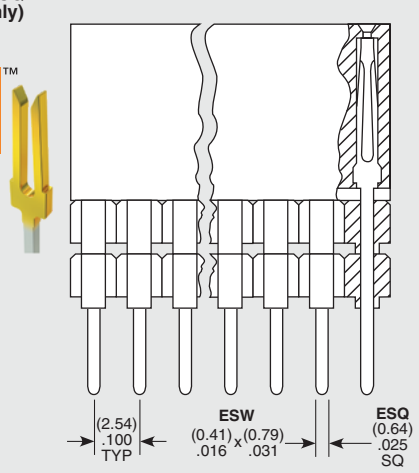
**OTHER OPTION**
- **–LL** = Locking Lead



Two leads per strip crimped. N/A with single row 1 or 2 positions.

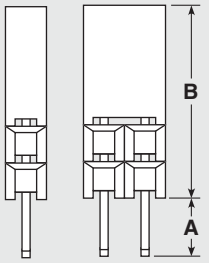
- **–"XXX"** = Polarized




## Specify LEAD STYLE from chart below.

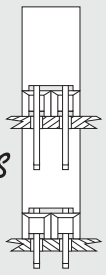
| STANDARD INSERTION FORCE | LOW INSERTION FORCE | A | B |
|---|---|---|---|
| – 12 | – 37 | (2.29) .090 | (11.05) .435 |
| – 13 | – 38 | (7.36) .290 | |
| – 23 | – 48 | (4.83) .190 | (13.59) .535 |
| – 33 | – 58 | (2.29) .090 | (16.13) .635 |
| – 14 | – 39 | (12.19) .480 | (11.05) .435 |
| – 24 | –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




## APPLICATIONS

EMBEDDED-PC PC/104 MODULES

Self Nesting Sockets



(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 |

*PC/104 is a trademark of the PC/104 Consortium.*

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



*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.*