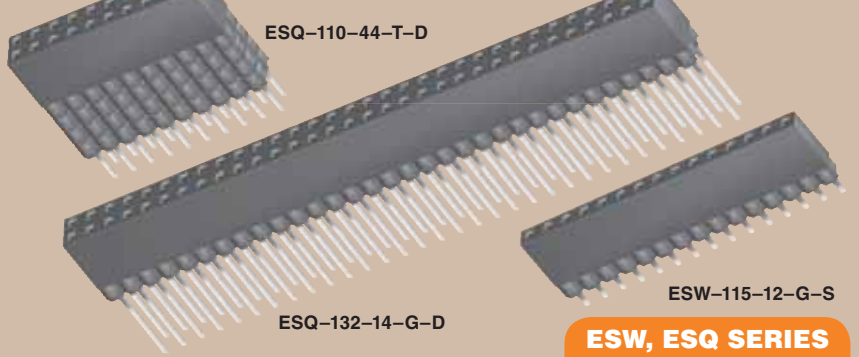


(2,54 mm) .100"

# ELEVATED SOCKET



ESW, ESQ SERIES

**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  
50µ" (1,27 µm) Ni  
**Current Rating (ESW/TSW):**  
5.2 A per pin  
(1 pin powered per row)  
**Current Rating (ESQ/TSW):**  
5.7 A per pin  
(1 pin powered per row)  
**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  
**Contact Resistance:**  
10 mΩ

**Insertion Depth:**  
(3,68 mm) .145" to  
(6,35 mm) .250"

**Insertion Force:**  
(Single contact only)  
Standard = 6 oz (1,67 N) avg.  
(0,64 mm) .025" SQ pin);  
ESW Low Insertion Force=  
3 oz (0,83 N) avg.  
ESQ Low Insertion Force=  
3.3 oz (0,92 N) avg.

**Normal Force:**  
Standard = 125 grams (4,4 N)  
**Withdrawal Force:**  
(Single contact only)  
Standard = 5 oz (1,39 N) avg.  
(0,64 mm) .025" SQ pin);  
ESW Low Insertion Force=  
2.6 oz (0,72 N) avg.  
ESQ Low Insertion Force=  
2.9 oz (0,81 N) avg.

**Max Cycles:**  
100 with 10µ" (0,25 µm) 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)

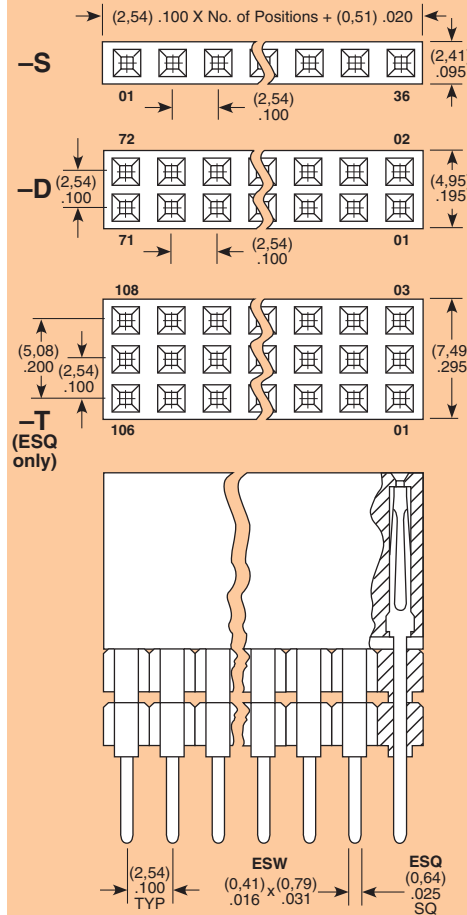


**Note:** Some lengths, styles and options are non-standard, non-returnable.

TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
<b>ESW</b> = Solder Tail  <b>ESQ</b> = Square Tail		<b>ALSO AVAILABLE</b> (MOQ Required)  • Other platings Contact Samtec.	<b>-L</b> = 10µ" (0,25 µm) Gold contact, Matte Tin on tail  <b>-G</b> = 20µ" (0,51 µm) Gold contact, Gold Flash on Balance  <b>-T</b> = Matte Tin (N/A w/LIF contact)	<b>-S</b> = Single Row  <b>-D</b> = Double Row  <b>-T</b> = Triple Row (ESQ only)	<b>-LL</b> = Locking Lead    Two leads per strip crimped. N/A with single row 1 or 2 positions.	<b>"XXX"</b> = Polarized



01 thru 36



## 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

*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.

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