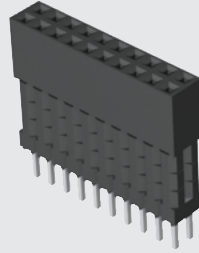


(2,54 mm) .100"

ESQ-110-44-T-D



ESW-115-12-G-S



ESQ-132-14-G-D

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 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)



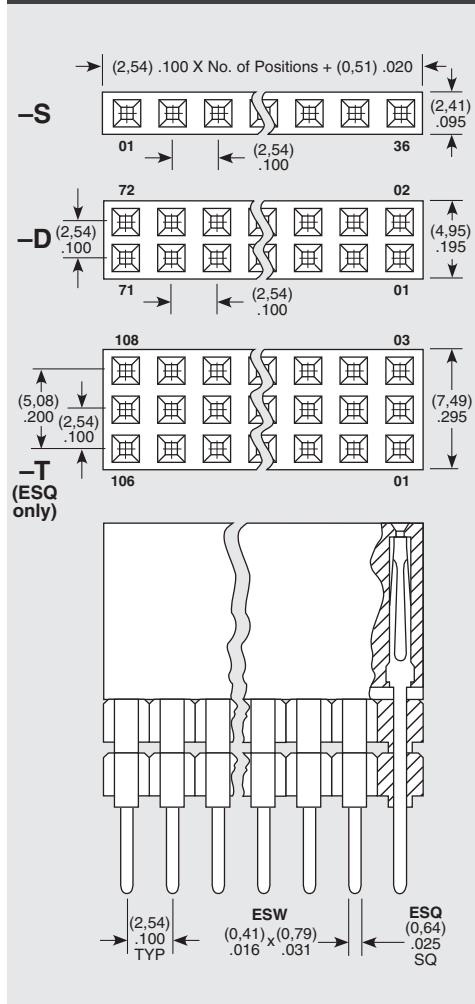
**Note:** Some lengths, styles and options are non-standard, non-returnable.

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>-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

**ALSO AVAILABLE**  
(MOQ Required)  
• Other platings  
Contact Samtec.

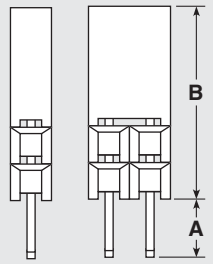


01 thru 36

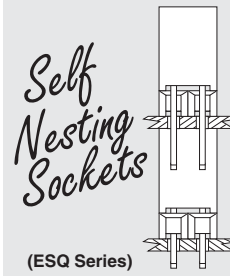


## Specify LEAD STYLE from chart below.

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



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.

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