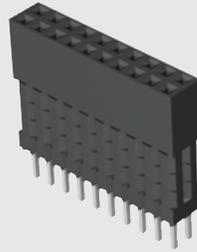




(2,54 mm) .100"

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

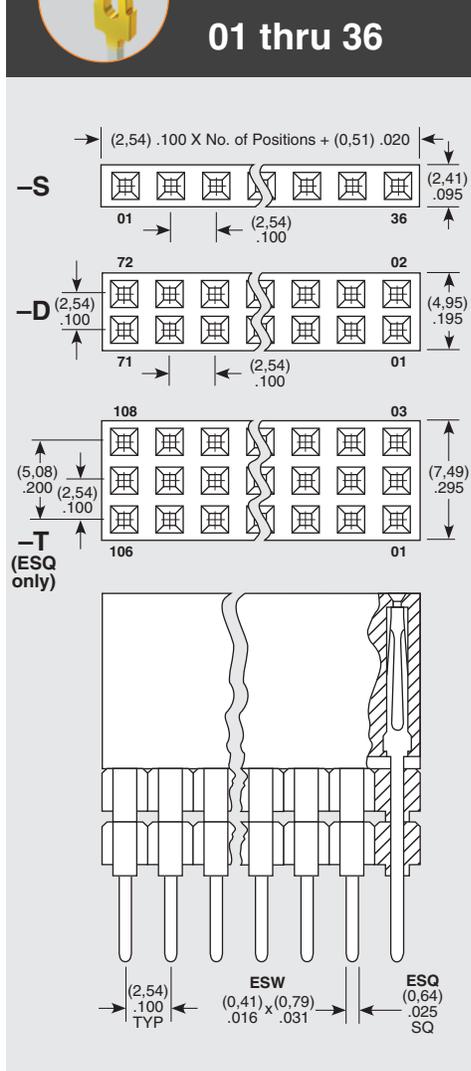
For complete scope of recognitions see [www.samtec.com/quality](http://www.samtec.com/quality)



FILE NO. E111594 FILE NO. 090871\_0\_000

**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 = Solder Tail	ALSO AVAILABLE (MOQ Required)	• Other platings Contact Samtec.	-L = 10µ" (0,25 µm) Gold contact, Matte Tin on tail	-S = Single Row	-LL = Locking Lead	
ESQ = Square Tail			-G = 20µ" (0,51 µm) Gold contact, Gold Flash on Balance	-D = Double Row	 Two leads per strip crimped. N/A with single row 1 or 2 positions.	
<b>TIGER BUY CONTACT™</b>			-T = Matte Tin (N/A w/LIF contact)	-T = Triple Row (ESQ only)	"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

*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.