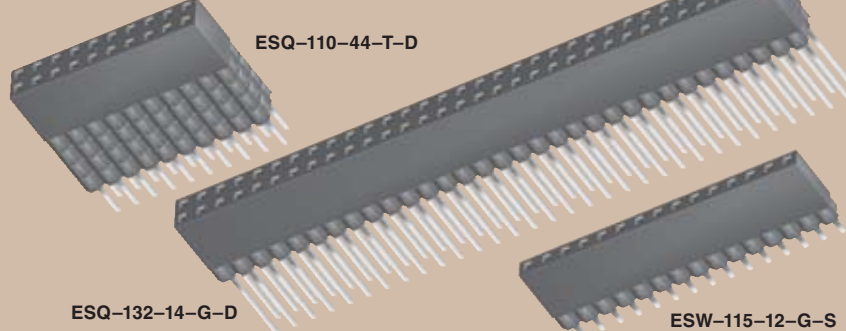


(2,54mm) .100"

ESW, ESQ SERIES



# ELEVATED SOCKET

**Mates with:**  
TSW, MTSW, EW, MTLW,  
TSS, ZSS,  
TSM, DW, ZW, HW

## 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" (1,27μm) Ni

**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 max

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

**Insertion Force:**  
(Single contact only)  
Standard = 6oz (1,67N) avg.  
(0,64mm) .025" SQ pin);

ESW Low Insertion Force=  
3oz (0,83N) avg.

ESQ Low Insertion Force=  
3.3oz (0,92N) avg.

**Normal Force:**  
Standard = 125 grams (4,4N)

**Withdrawal Force:**  
(Single contact only)  
Standard = 5oz (1,39N) avg.

(0,64mm) .025" SQ pin);

ESW Low Insertion Force=  
2.6oz (0,72N) avg.

ESQ Low Insertion Force=  
2.9oz (0,81N) avg.

**Max Cycles:**

100 with 10μ" (0,25μm) Au

**RoHS Compliant:**

Yes

**Lead-Free Solderable:**

Wave only



TYPE STRIP

1

NO. PINS PER ROW

LEAD STYLE

PLATING OPTION

ROW OPTION

OTHER OPTION

ESW

= Solder Tail

ESQ

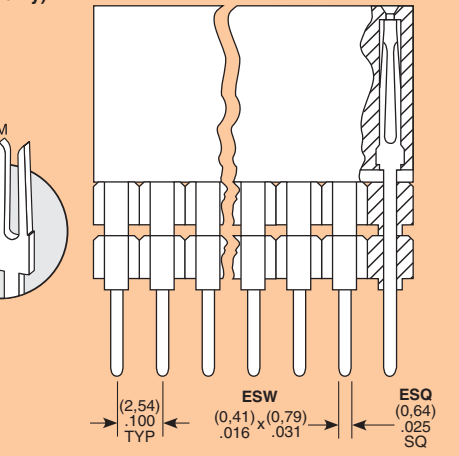
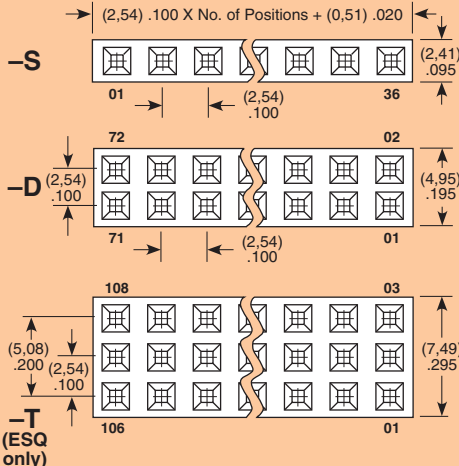
= Square Tail

### CURRENT RATING

AMBIENT TEMP	ESW mated with TSW
20°C	6.9A
40°C	6.0A
60°C	5.3A
95°C	3.5A

6 POSITIONS (2x3) POWERED

01 thru 36



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

—L  
= 10μ" (0,25μm)  
Gold contact,  
Matte Tin on tail

—G  
= 20μ" (0,51μm)  
Gold contact,  
Gold Flash on Balance

—T  
= Matte Tin  
(N/A w/LIF contact)

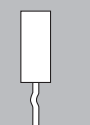
**Note:** Other Gold plating  
options available.  
Contact Samtec.

—S  
= Single  
Row

—D  
= Double  
Row

—T  
= Triple  
Row  
(ESQ only)

—LL  
= Locking  
Lead

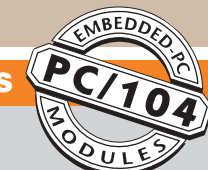


Two leads per  
strip crimped.  
N/A with single  
row 1 or 2  
positions.

—“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	(13,59) .535
— 23	— 48	(4,83) .190	(16,13) .635
— 33	— 58	(2,29) .090	(11,05) .435
— 14	— 39	(12,19) .480	(13,59) .535
— 24	— 49	(9,65) .380	(16,13) .635
— 34	— 59	(7,11) .280	(18,67) .735
— 44	— 69	(4,57) .180	



## 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

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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