

ELEVATED SOCKETS ESW & ESQ SERIES

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

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

50μ" (1.27μm) Ni

Current Rating:
3A continuous

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)

(-S plating)

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)

(-S plating)

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

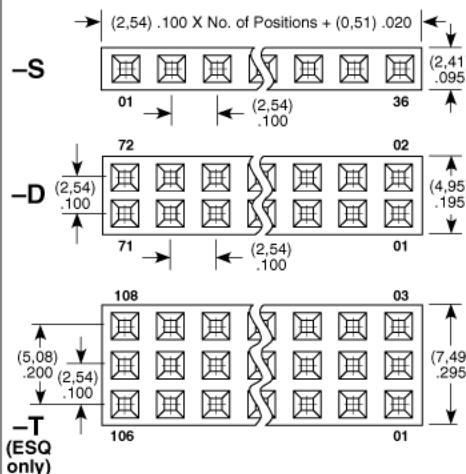
Max Cycles:
100 with 10μ" (0.25μm) Au

Lead-Free Solderable:
Wave only



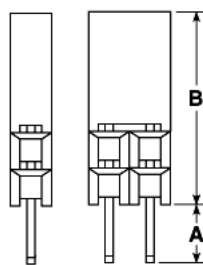
TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION
ESW = Solder Tail					-S = Single Row	-LL = Locking Lead
ESQ = Square Tail				-G = 20μ" (0.51μm) Gold Contact, Gold Flash on Balance	-D = Double Row	 Two leads per strip crimped. N/A with single row 1 or 2 positions.
				-S = 30μ" (0.76μm) Gold on Contact area, Matte Tin on Tail	-T = Triple Row (ESQ only)	
				-T = Matte Tin (N/A w/LIF contact)		
						-“XXX” = 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.

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

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

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