

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)

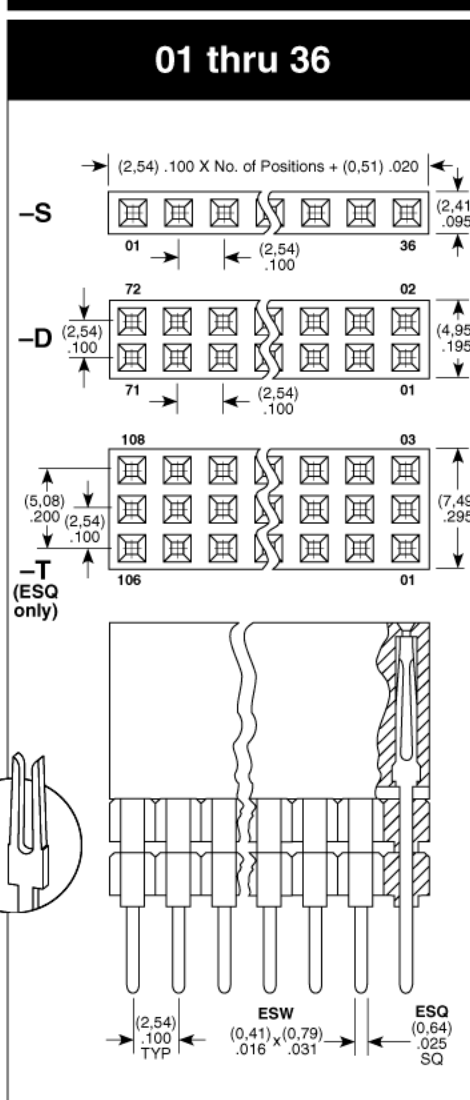
Withdrawal Force:
(Single contact only)
(-S plating)
Standard = 5oz (1,39N) avg
(0,64mm) .025" SQ pin);
ESW Low Insertion Force=
2.6oz (0,72N) avg
ESQ Low Insertion Force=
2.9oz (0,81N) avg

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



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	(16,13) .635
- 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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