

(2,54 mm) .100"

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
or www.samtec.com?ESQ

Insulator Material:
Black Glass Filled
Polyester

Contact Material:
Phosphor Bronze

Plating:
Au or Sn over
50µ" (1,27 µm) 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

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



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

TYPE
STRIP

1

NO. PINS
PER ROWLEAD
STYLEPLATING
OPTIONROW
OPTIONOTHER
OPTION

ESW

= Solder Tail

ESQ

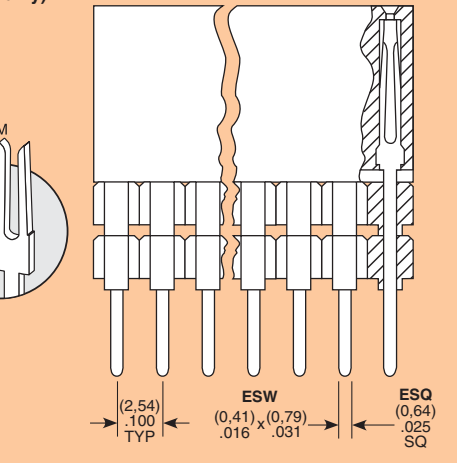
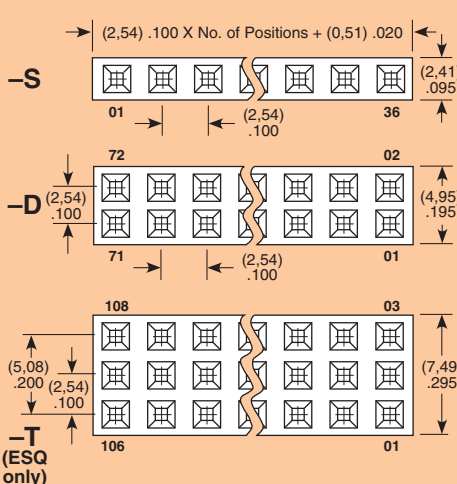
= Square Tail

CURRENT RATING (PER CONTACT)

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



ESQ-110-44-T-D

ESQ-132-14-G-D

ESW-115-12-G-S

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

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

—T
= Matte Tin
(N/A w/LIF contact)

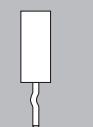
Note: Other Gold plating
options available.
Contact Samtec.

—S
= Single
Row

—D
= Double
Row

—T
= Triple
Row
(ESQ only)

—LL
= Locking
Lead

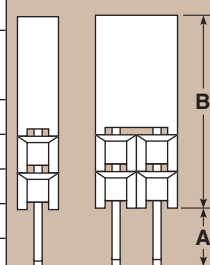


Two leads per
strip crimped.
N/A with single
row 1 or 2
positions.

“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	(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.

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

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