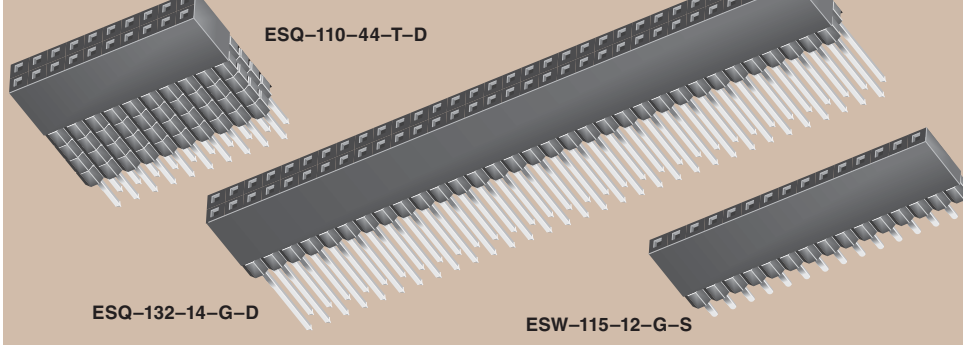
samtec

EMBEDDED-PC PC/104 MODULES



Through T/H Hole

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
RoHS Compliant:
Yes
Lead-Free Solderable:
Wave only

c UL us FILE NO. E111594

TIGER BUY CONTACT

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

ESQ = Square Tail

01 thru 36

–G = 20µ" (0.51µm) Gold Contact, Gold Flash on Balance

–S = 30µ" (0,76µm) Gold on Contact area, Matte Tin on Tail

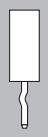
–T = Matte Tin (N/A w/LIF contact)

–S = Single Row

–D = Double Row

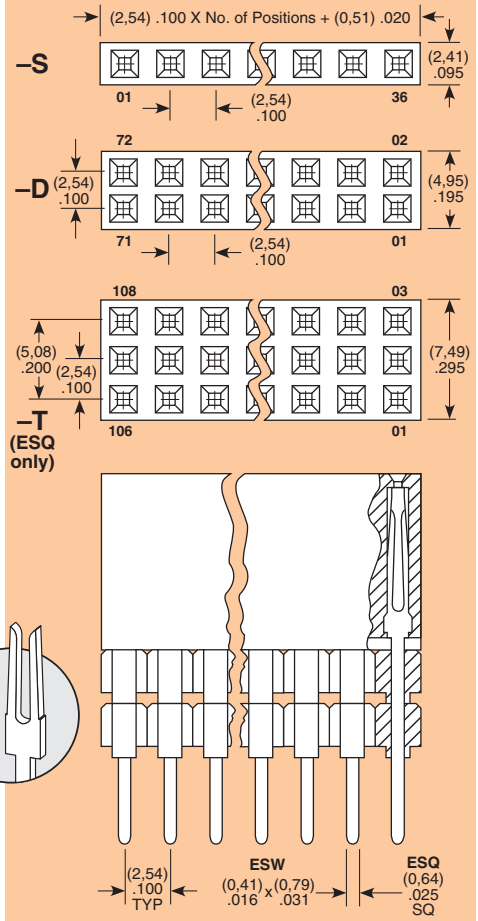
–T = Triple Row (ESQ only)

–LL = Locking Lead



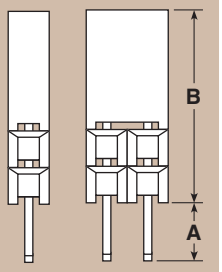
Two leads per strip crimped. N/A with single row 1 or 2 positions.

–"XXX" = Polarized



Specify LEAD STYLE from chart below.

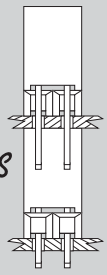
STANDARD INSERTION FORCE	LOW INSERTION FORCE	A	B
– 12	– 37	(2,29) .090	(11,05) .435
– 13	– 38	(7,36) .290	
– 23	– 48	(4,83) .190	(13,59) .535
– 33	– 58	(2,29) .090	(16,13) .635
– 14	– 39	(12,19) .480	(11,05) .435
– 24	– 49	(9,65) .380	(13,59) .535
– 34	– 59	(7,11) .280	(16,13) .635
– 44	– 69	(4,57) .180	(18,67) .735



APPLICATIONS

EMBEDDED-PC PC/104 MODULES

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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