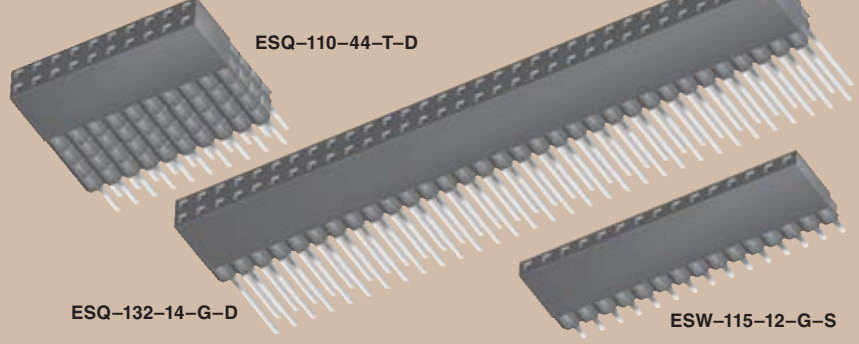


(2,54 mm) .100"

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

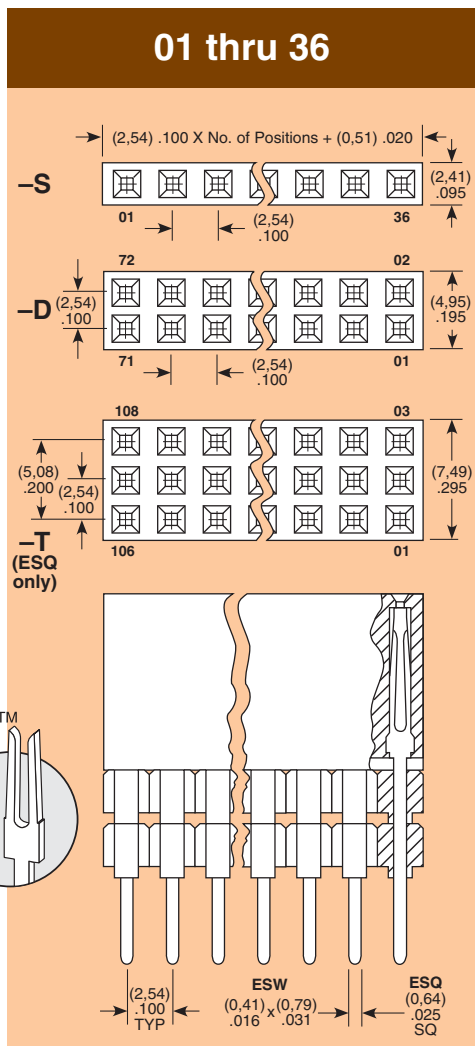
RoHS Compliant:
Yes

Lead-Free Solderable:
Wave only

Wave only



TYPE STRIP	1	NO. PINS PER ROW	LEAD STYLE	PLATING OPTION	ROW OPTION	OTHER OPTION													
ESW = Solder Tail																			
ESQ = Square Tail																			
		<table border="1"> <tr> <th colspan="2">CURRENT RATING (PER CONTACT)</th> </tr> <tr> <th>AMBIENT TEMP</th> <th>ESW mated with TSW</th> </tr> <tr> <td>20°C</td> <td>6.9A</td> </tr> <tr> <td>40°C</td> <td>6.0A</td> </tr> <tr> <td>60°C</td> <td>5.3A</td> </tr> <tr> <td>95°C</td> <td>3.5A</td> </tr> </table>		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				
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																		
		<table border="1"> <tr> <th colspan="2">6 POSITIONS (2x3) POWERED</th> </tr> </table>		6 POSITIONS (2x3) POWERED															
6 POSITIONS (2x3) POWERED																			
		<table border="1"> <tr> <th colspan="2">LEAD STYLE</th> </tr> <tr> <td>-L</td> <td>= 10µ" (0,25 µm) Gold contact, Matte Tin on tail</td> </tr> <tr> <td>-G</td> <td>= 20µ" (0,51 µm) Gold contact, Gold Flash on Balance</td> </tr> <tr> <td>-T</td> <td>= Matte Tin (N/A w/LIF contact)</td> </tr> </table>		LEAD STYLE		-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)								
LEAD STYLE																			
-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)																		
		<table border="1"> <tr> <th colspan="2">ROW OPTION</th> </tr> <tr> <td>-S</td> <td>= Single Row</td> </tr> <tr> <td>-D</td> <td>= Double Row</td> </tr> <tr> <td>-T</td> <td>= Triple Row (ESQ only)</td> </tr> </table>		ROW OPTION		-S	= Single Row	-D	= Double Row	-T	= Triple Row (ESQ only)								
ROW OPTION																			
-S	= Single Row																		
-D	= Double Row																		
-T	= Triple Row (ESQ only)																		
		<table border="1"> <tr> <th colspan="2">OTHER OPTION</th> </tr> <tr> <td>-LL</td> <td>= Locking Lead</td> </tr> </table>		OTHER OPTION		-LL	= Locking Lead												
OTHER OPTION																			
-LL	= Locking Lead																		
		<p>Note: Other Gold plating options available. Contact Samtec.</p>																	
		<p>Two leads per strip crimped. N/A with single row 1 or 2 positions.</p>																	
		<p>"XXX" = Polarized</p>																	



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

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.

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

WWW.SAMTEC.COM