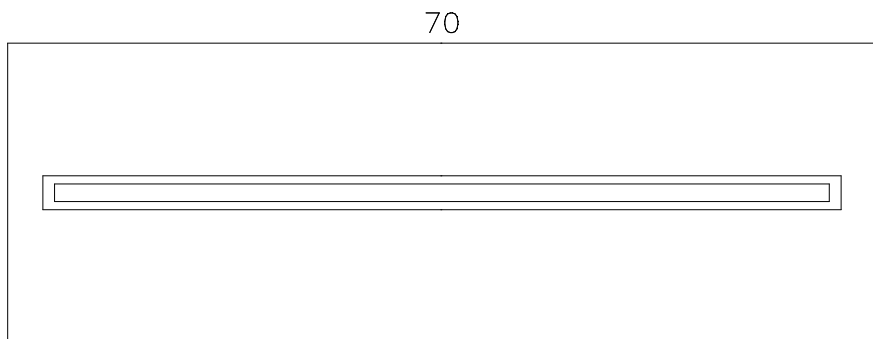
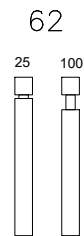
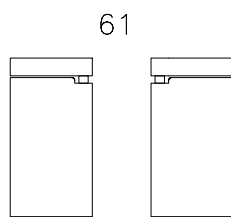
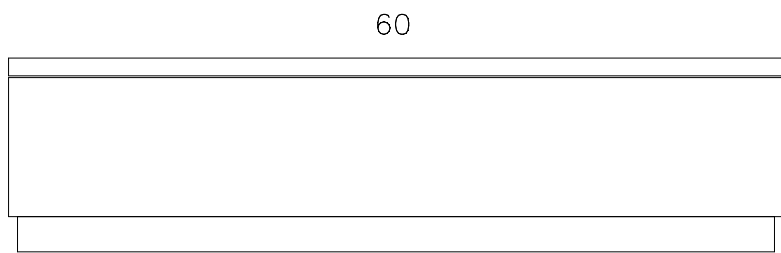
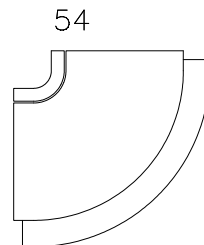
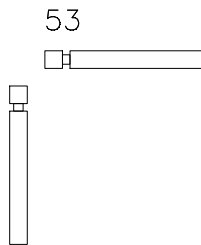
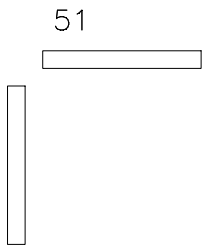
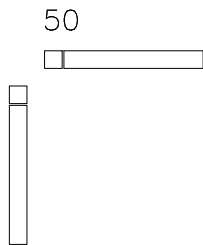
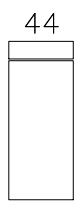
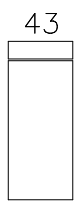
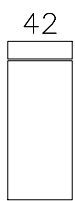
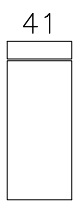
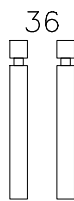
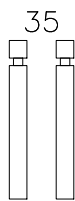
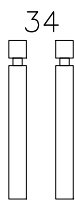
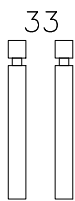
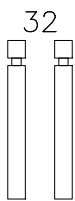
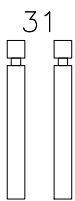
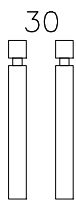
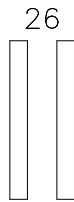
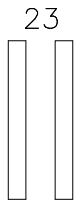
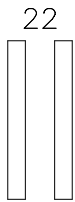
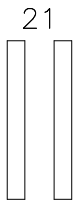
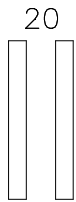
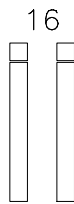
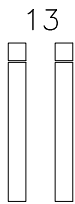
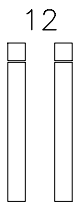
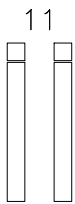
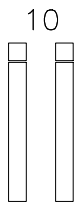


CS-111 Calibration Substrate Key

(all structures for probes with one ground contact and 600 to 1250 micron pitch)

Location #	Description	Coordinates (X,Y in micrometers)
10	open pads (pair)	(-5100,-8075) from 52
11	open pads (pair)	(-3400,-8075) from 52
12	open pads (pair)	(-1700,-8075) from 52
13	open pads (pair)	(0,-8075) from 52
14	open pads (pair)	(1700,-8075) from 52
15	open pads (pair)	(3400,-8075) from 52
16	open pads (pair)	(5100,-8075) from 52
20	shorting bar (pair)	(-5100,-6075) from 52
21	shorting bar (pair)	(-3400,-6075) from 52
22	shorting bar (pair)	(-1700,-6075) from 52
23	shorting bar (pair)	(0,-6075) from 52
24	shorting bar (pair)	(1700,-6075) from 52
25	shorting bar (pair)	(3400,-6075) from 52
26	shorting bar (pair)	(5100,-6075) from 52
30	50 ohm loads (pair)	(-5100,-4075) from 52
31	50 ohm loads (pair)	(-3400,-4075) from 52
32	50 ohm loads (pair)	(-1700,-4075) from 52
33	50 ohm loads (pair)	(0,-4075) from 52
34	50 ohm loads (pair)	(1700,-4075) from 52
35	50 ohm loads (pair)	(3400,-4075) from 52
36	50 ohm loads (pair)	(5100,-4075) from 52
40	550 micrometer single sided line	(-5100,-2075) from 52
41	550 micrometer single sided line	(-3400,-2075) from 52
42	550 micrometer single sided line	(-1700,-2075) from 52
43	550 micrometer single sided line	(0,-2075) from 52
44	550 micrometer single sided line	(1700,-2075) from 52
45	550 micrometer single sided line	(3400,-2075) from 52
46	550 micrometer single sided line	(5100,-2075) from 52
50	right angle open pads for G,S probes (pair)	(0,0) from 50
51	right angle shorting bars for G,S probes (pair)	(3000,0) from 50
52	400 micrometer spacing alignment structure #1	(0,0) from 52
53	right angle load for G,S probes (pair)	(6000,0) from 50
54	right angle 50 ohm line for G,S probes	(9000,0) from 50
60	6600 micrometer single sided line	(5100,2925) from 52 for left probe
61	585 micrometer offset 50 ohm loads	
62	25 ohm on left / 100 ohm on right, loads	(5500,2925) from 52
70	6600 micron 50 ohm coplanar line	(-5100,6425) from 52 for left probe
71	550 micron 50 ohm coplanar line	(5100,6425) from 52

Table 1