



GGB INDUSTRIES, INC. CS-108r1 1/2022

CS-108 Calibration Substrate Key

(all structures for probes with one ground)

Location #	Description	Coordinates (X,Y in micrometers)
00	open pads (500 to 1250 micrometer pitch)	(0, 0) from 00
01	50 ohm loads (500 to 1250 micrometer pitch)	(11500, 0) from 00
10	6600 micrometer 50 ohm coplanar line (50 to 250 micrometer pitch)	(175, 4155) from 41
20	shorting bars (500 to 1250 micrometer pitch)	(0, 2025) from 00
21	550 micrometer long 50 ohm line (500 to 1250 micrometer pitch)	(11500, 2025) from 00
30	right angle open pads for G,S probes (pair) (50 to 250 micrometer pitch)	(0, 0) from 30
31	right angle shorting bars for G,S probes (pair) (50 to 250 micrometer pitch)	(2700, 0) from 30
33	right angle load for G,S probes (pair) (50 to 250 micrometer pitch)	(5400, 0) from 30
34	right angle 50 ohm line for G,S probes (50 to 250 micrometer pitch)	(8100, 0) from 30
40	right angle open pads for S,G probes (pair) (50 to 250 micrometer pitch)	(0, 0) from 40
41	350 micrometer spacing alignment structure #1	(0, 0) from 41
42	right angle shorting bars for S,G probes (pair) (50 to 250 micrometer pitch)	(2700, 0) from 40
43	350 micrometer spacing alignment structure #2	(3400, 0) from 41
44	right angle 50 ohm loads for S,G probes (pair) (50 to 250 micrometer pitch)	(5400, 0) from 40
45	right angle 50 ohm line for S,G probes (pair) (50 to 250 micrometer pitch)	(8100, 0) from 40
50	open pads for non mirror image probes (pair) (50 to 250 micrometer pitch)	(-1725, 2000) from 41
51	open pads (pair) (50 to 250 micrometer pitch)	(0, 2000) from 41
52	open pads (pair) (50 to 250 micrometer pitch)	(1700, 2000) from 41
53	open pads (pair) (50 to 250 micrometer pitch)	(3400, 2000) from 41
54	open pads (pair) (50 to 250 micrometer pitch)	(5100, 2000) from 41
55	open pads (pair) (50 to 250 micrometer pitch)	(6800, 2000) from 41
56	open pads (pair) (50 to 250 micrometer pitch)	(8500, 2000) from 41
60	shorting bar for non mirror image probes (pair) (50 to 250 micrometer pitch)	(-1750, 4000) from 41
61	shorting bar (pair) (50 to 250 micrometer pitch)	(0, 4000) from 41
62	shorting bar (pair) (50 to 250 micrometer pitch)	(1700, 4000) from 41
63	shorting bar (pair) (50 to 250 micrometer pitch)	(3400, 4000) from 41
64	shorting bar (pair) (50 to 250 micrometer pitch)	(5100, 4000) from 41
65	shorting bar (pair) (50 to 250 micrometer pitch)	(6800, 4000) from 41
66	shorting bar (pair) (50 to 250 micrometer pitch)	(8500, 4000) from 41
70	50 ohm loads for non mirror image probes (pair) (75 to 250 micrometer pitch)	(-1750, 6000) from 41
71	50 ohm loads (pair) (50 to 250 micrometer pitch)	(0, 6000) from 41
72	50 ohm loads (pair) (50 to 250 micrometer pitch)	(1700, 6000) from 41
73	50 ohm loads (pair) (50 to 250 micrometer pitch)	(3400, 6000) from 41
74	50 ohm loads (pair) (50 to 250 micrometer pitch)	(5100, 6000) from 41
75	50 ohm loads (pair) (50 to 250 micrometer pitch)	(6800, 6000) from 41
76	50 ohm loads (pair) (50 to 250 micrometer pitch)	(8500, 6000) from 41
80	50 ohm coplanar line for non mirror image probes (50 to 250 micrometer pitch)	(-1725, 8000) from 41
81	400 micrometer long single sided line (50 to 250 micrometer pitch)	(0, 8000) from 41
82	400 micrometer long single sided line (50 to 250 micrometer pitch)	(1700, 8000) from 41
83	400 micrometer long single sided line (50 to 250 micrometer pitch)	(3400, 8000) from 41
84	400 micrometer long single sided line (50 to 250 micrometer pitch)	(5100, 8000) from 41
85	400 micrometer long single sided line (50 to 250 micrometer pitch)	(6800, 8000) from 41
86	400 micrometer long single sided line (50 to 250 micrometer pitch)	(8500, 8000) from 41
90	shorting bars (250 to 500 micrometer pitch)	(0, -1500) from 110
91	550 micrometer long 50 ohm coplanar line (250 to 500 micrometer pitch)	(11500, -1500) from 110
100	6600 micrometer single sided line (50 to 800 micrometer pitch)	(175, 10914) from 41
110	open pads (250 to 500 micrometer pitch)	(0, 0) from 110
111	50 ohm loads (250 to 500 micrometer pitch)	(11500, 0) from 110

Table 1