

Test Location : Compatible Electronics Page : 1/4
 Customer : DIGIMARC Date : 6/09/2003
 Manufacturer : ZEBRA TECHNOLOGIES Time : 13:09:15
 Eut name : CARD PRINTER Lab : A
 Model : DG420i Test Distance : 3.0
 Serial # :
 Specification : FCC Class B
 Distance correction factor (20 * log(test/spec) : 0.00
 Test Mode : TESTED BY MICHAEL CHRISTENSEN

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Li mit = L dBuV/m	Delta R-L dB
1V	32.111	55.20	0.95	11.26	33.60	33.81	40.00	-6.19
2H	64.068	49.60	1.34	8.55	33.56	25.93	40.00	-14.07
3V	64.081	58.20	1.34	8.55	33.56	34.53	40.00	-5.47
4H	67.849	50.50	1.38	7.80	33.52	26.16	40.00	-13.84
5V	67.862	50.70	1.38	7.80	33.52	26.36	40.00	-13.64
6V	67.862Qp	49.96	1.38	7.80	33.52	25.62	40.00	-14.38
7H	67.872	48.80	1.38	7.80	33.52	24.46	40.00	-15.54
8V	73.782	54.60	1.44	6.89	33.50	29.43	40.00	-10.57
9V	80.061	55.30	1.50	6.11	33.50	29.41	40.00	-10.59
10H	80.104	48.30	1.50	6.11	33.50	22.42	40.00	-17.58
11V	88.571	57.90	1.59	7.22	33.50	33.21	43.50	-10.29
12V	100.062	59.10	1.60	10.21	33.60	37.31	43.50	-6.19
13V	127.058	56.10	1.83	12.27	33.58	36.62	43.50	-6.88
14H	128.505	55.40	1.85	12.25	33.57	35.93	43.50	-7.57
15H	128.574	54.70	1.85	12.25	33.57	35.23	43.50	-8.27
16H	134.964	52.60	1.93	12.16	33.52	33.17	43.50	-10.33
17V	135.664Qp	44.40	1.93	12.16	33.51	24.98	43.50	-18.52
18V	135.664	46.10	1.93	12.16	33.51	26.68	43.50	-16.82
19V	143.463	55.00	2.03	11.78	33.45	35.36	43.50	-8.14
20H	144.099	52.40	2.03	11.72	33.44	32.71	43.50	-10.79
21H	147.518	50.70	2.07	11.42	33.42	30.77	43.50	-12.73
22V	147.559	50.40	2.07	11.41	33.42	30.47	43.50	-13.03
23V	147.874	60.10	2.08	11.39	33.42	40.15	43.50	-3.35
24V	147.880Qp	50.52	2.08	11.39	33.42	30.57	43.50	-12.93
25H	151.606	52.20	2.11	11.35	33.41	32.25	43.50	-11.25
26H	159.190	44.70	2.14	12.03	33.44	25.43	43.50	-18.07
27H	160.079	52.20	2.14	12.12	33.44	33.02	43.50	-10.48
28V	160.107	54.60	2.14	12.12	33.44	35.42	43.50	-8.08
29V	160.108	54.10	2.14	12.12	33.44	34.92	43.50	-8.58
30H	162.157	50.00	2.15	12.56	33.45	31.26	43.50	-12.24
31H	168.868	51.50	2.18	13.97	33.48	34.17	43.50	-9.33
32H	170.826	49.90	2.18	14.36	33.48	32.96	43.50	-10.54
33V	180.081	51.40	2.26	15.90	33.48	36.09	43.50	-7.41
34H	194.746	55.10	2.44	16.72	33.42	40.84	43.50	-2.66
35H	194.766Qp	52.31	2.44	16.72	33.42	38.05	43.50	-5.45



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 Serial # :
 Specification : FCC Class B
 Distance correction factor (20 * log(test/spec) : 0.00
 Test Mode : TESTED BY MICHAEL CHRISTENSEN

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor'd rdg = R dBuV	Limit = L dBuV/m	Delta R-L dB
36H	199.008	57.50	2.49	16.95	33.40	43.53	43.50	0.03
37H	199.011Qp	54.52	2.49	16.95	33.40	40.55	43.50	-2.95*
38H	200.108	52.20	2.50	17.00	33.40	38.30	43.50	-5.20
39H	202.256	56.20	2.51	16.94	33.39	42.26	43.50	-1.24
40H	202.259Qp	52.93	2.51	16.94	33.39	38.99	43.50	-4.51
41H	207.046	58.80	2.53	16.83	33.37	44.79	43.50	1.29
42H	207.047Qp	54.18	2.53	16.83	33.37	40.17	43.50	-3.33
43V	217.000	48.40	2.57	16.60	33.33	34.24	46.00	-11.76
44H	217.000	50.40	2.57	16.60	33.33	36.24	46.00	-9.76
45V	217.001Qp	47.44	2.57	16.60	33.33	33.28	46.00	-12.72
46H	217.003Qp	48.11	2.57	16.60	33.33	33.95	46.00	-12.05
47H	217.018	50.60	2.57	16.60	33.33	36.44	46.00	-9.56
48H	224.071	54.70	2.60	16.44	33.30	40.43	46.00	-5.57*
49V	224.102	51.50	2.60	16.44	33.30	37.23	46.00	-8.77
50H	227.001	53.00	2.61	16.38	33.29	38.69	46.00	-7.31
51V	228.896	49.10	2.62	16.33	33.28	34.77	46.00	-11.23
52V	230.565	47.00	2.62	16.30	33.28	32.65	46.00	-13.35
53V	230.565Qp	46.03	2.62	16.30	33.28	31.68	46.00	-14.32
54H	230.601	52.30	2.62	16.30	33.28	37.94	46.00	-8.06
55H	230.602	46.30	2.62	16.30	33.28	31.94	46.00	-14.06
56H	230.603Qp	51.35	2.62	16.30	33.28	36.99	46.00	-9.01
57H	232.198	54.70	2.63	16.26	33.27	40.32	46.00	-5.68*
58H	235.880	52.40	2.64	16.19	33.26	37.98	46.00	-8.02
59H	240.026	44.30	2.66	16.10	33.24	29.82	46.00	-16.18
60H	243.444	47.80	2.67	16.03	33.23	33.28	46.00	-12.72
61V	250.074	48.70	2.70	15.91	33.20	34.11	46.00	-11.89
62V	256.060	43.70	2.73	16.40	33.23	29.60	46.00	-16.40
63H	257.511	49.20	2.73	16.52	33.23	35.22	46.00	-10.78
64H	288.061	40.40	2.85	18.85	33.30	28.81	46.00	-17.19
65V	311.909	49.60	2.98	13.07	33.30	32.34	46.00	-13.66
66V	320.062	50.00	3.03	13.31	33.30	33.03	46.00	-12.97
67H	320.070	48.70	3.03	13.31	33.30	31.73	46.00	-14.27
68H	320.103	49.60	3.03	13.31	33.30	32.63	46.00	-13.37
69H	324.221	52.90	3.05	13.43	33.30	36.08	46.00	-9.92
70V	325.518	52.00	3.06	13.47	33.30	35.23	46.00	-10.77



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 Serial # :
 Specification : FCC Class B
 Distance correction factor (20 * log(test/spec) : 0.00
 Test Mode : TESTED BY MICHAEL CHRISTENSEN

Pol	Freq MHz	Rdng dBuV	Cable loss dB	Ant factor dB	Amp gain dB	Cor' d rdg = R dBuV	Li mi t = L dBuV/m	Del ta R- L dB
71V	339.028	53.30	3.14	13.85	33.30	36.99	46.00	-9.01
72V	339.031	54.90	3.14	13.85	33.30	38.59	46.00	-7.41
73H	339.043	51.00	3.14	13.85	33.30	34.69	46.00	-11.31
74V	340.732	53.90	3.15	13.89	33.30	37.64	46.00	-8.36
75V	343.324	52.50	3.16	13.97	33.30	36.33	46.00	-9.67
76H	346.533	48.40	3.18	14.05	33.30	32.33	46.00	-13.67
77H	352.058Qp	58.40	3.21	14.20	33.29	42.52	46.00	-3.48*
78H	352.058	59.10	3.21	14.20	33.29	43.22	46.00	-2.78
79V	352.082	60.70	3.21	14.20	33.29	44.82	46.00	-1.18
80V	352.088Qp	59.46	3.21	14.20	33.29	43.58	46.00	-2.42*
81V	352.608	54.80	3.22	14.22	33.29	38.94	46.00	-7.06
82V	352.613Qp	52.42	3.22	14.22	33.29	36.56	46.00	-9.44
83H	352.626Qp	49.52	3.22	14.22	33.29	33.66	46.00	-12.34
84H	352.636	50.60	3.22	14.22	33.29	34.75	46.00	-11.25
85V	360.134	52.20	3.26	14.41	33.26	36.62	46.00	-9.38
86V	366.186	56.90	3.30	14.57	33.23	41.54	46.00	-4.46
87V	366.190Qp	55.03	3.30	14.57	33.23	39.67	46.00	-6.33
88H	371.965	44.10	3.34	14.72	33.21	28.95	46.00	-17.05
89V	379.695	52.30	3.38	14.91	33.18	37.42	46.00	-8.58
90V	379.697Qp	49.31	3.38	14.91	33.18	34.43	46.00	-11.57
91V	379.712	52.40	3.38	14.91	33.18	37.52	46.00	-8.48
92V	384.066	51.60	3.41	15.02	33.16	36.87	46.00	-9.13
93H	384.091	43.00	3.41	15.02	33.16	28.27	46.00	-17.73
94V	393.285	49.10	3.46	15.24	33.13	34.68	46.00	-11.32
95H	400.070	43.90	3.50	15.40	33.10	29.70	46.00	-16.30
96V	406.840	46.30	3.53	15.48	33.09	32.23	46.00	-13.77
97H	416.044	41.90	3.57	15.59	33.07	27.99	46.00	-18.01
98V	416.070	47.00	3.57	15.59	33.07	33.09	46.00	-12.91
99V	420.376	46.30	3.58	15.64	33.06	32.47	46.00	-13.53
100V	433.318	46.00	3.64	15.79	33.03	32.40	46.00	-13.60
101V	448.081	40.90	3.69	15.96	33.00	27.55	46.00	-18.45
102H	448.091	44.70	3.69	15.96	33.00	31.35	46.00	-14.65
103H	479.970	42.70	3.82	16.30	32.94	29.88	46.00	-16.12
104V	480.082	42.50	3.82	16.30	32.94	29.68	46.00	-16.32
105H	500.103	50.00	3.90	16.50	32.90	37.50	46.00	-8.50



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106H	510.527	50.30	3.94	16.58	32.92	37.90	46.00	-8.10
107V	512.028	46.50	3.95	16.59	32.92	34.12	46.00	-11.88
108H	512.043	41.60	3.95	16.59	32.92	29.22	46.00	-16.78
109V	528.088	43.10	4.01	16.71	32.96	30.87	46.00	-15.13
110H	544.079	40.30	4.08	16.82	32.99	28.21	46.00	-17.79
111V	544.083	43.70	4.08	16.82	32.99	31.61	46.00	-14.39
112V	576.101	51.50	4.15	17.04	32.89	39.80	46.00	-6.20
113H	589.819	36.30	4.18	17.13	32.84	24.78	46.00	-21.22
114V	608.029	45.20	4.27	17.49	32.77	34.19	46.00	-11.81
115H	608.066	42.10	4.27	17.49	32.77	31.09	46.00	-14.91
116H	640.031	44.40	4.52	18.62	32.64	34.91	46.00	-11.09
117V	640.041Qp	50.10	4.52	18.62	32.64	40.61	46.00	-5.39*
118V	664.468	47.70	4.60	19.45	32.63	39.12	46.00	-6.88
119V	664.471Qp	46.41	4.60	19.45	32.63	37.83	46.00	-8.17
120V	664.485Qp	45.00	4.60	19.45	32.63	36.42	46.00	-9.58
121V	664.492	46.20	4.60	19.45	32.63	37.62	46.00	-8.38
122V	672.035	46.40	4.60	19.70	32.64	38.06	46.00	-7.94
123H	672.055	38.70	4.60	19.70	32.65	30.36	46.00	-15.64
124V	678.041	45.20	4.60	19.90	32.66	37.04	46.00	-8.96
125V	678.046Qp	43.34	4.60	19.90	32.66	35.18	46.00	-10.82
126V	691.585Qp	43.74	4.60	20.33	32.68	35.99	46.00	-10.01
127V	691.597	45.00	4.60	20.33	32.68	37.25	46.00	-8.75
128V	704.049	51.90	4.62	20.65	32.67	44.49	46.00	-1.51
129V	704.049Qp	50.44	4.62	20.65	32.67	43.03	46.00	-2.97*
130V	736.027	42.50	4.75	21.05	32.48	35.81	46.00	-10.19
131V	768.035	50.20	4.80	21.43	32.40	44.03	46.00	-1.97
132V	768.036Qp	49.14	4.80	21.43	32.40	42.97	46.00	-3.03*
133V	800.033	43.50	4.80	21.80	32.40	37.70	46.00	-8.30
134V	832.035	47.20	4.93	21.53	32.59	41.07	46.00	-4.93*
135H	832.062	42.60	4.93	21.53	32.59	36.47	46.00	-9.53
136H	868.732	45.00	5.04	21.24	32.39	38.88	46.00	-7.12
137V	896.029	43.20	5.09	21.03	31.96	37.36	46.00	-8.64
138V	928.047	37.90	5.21	21.15	31.84	32.42	46.00	-13.58

