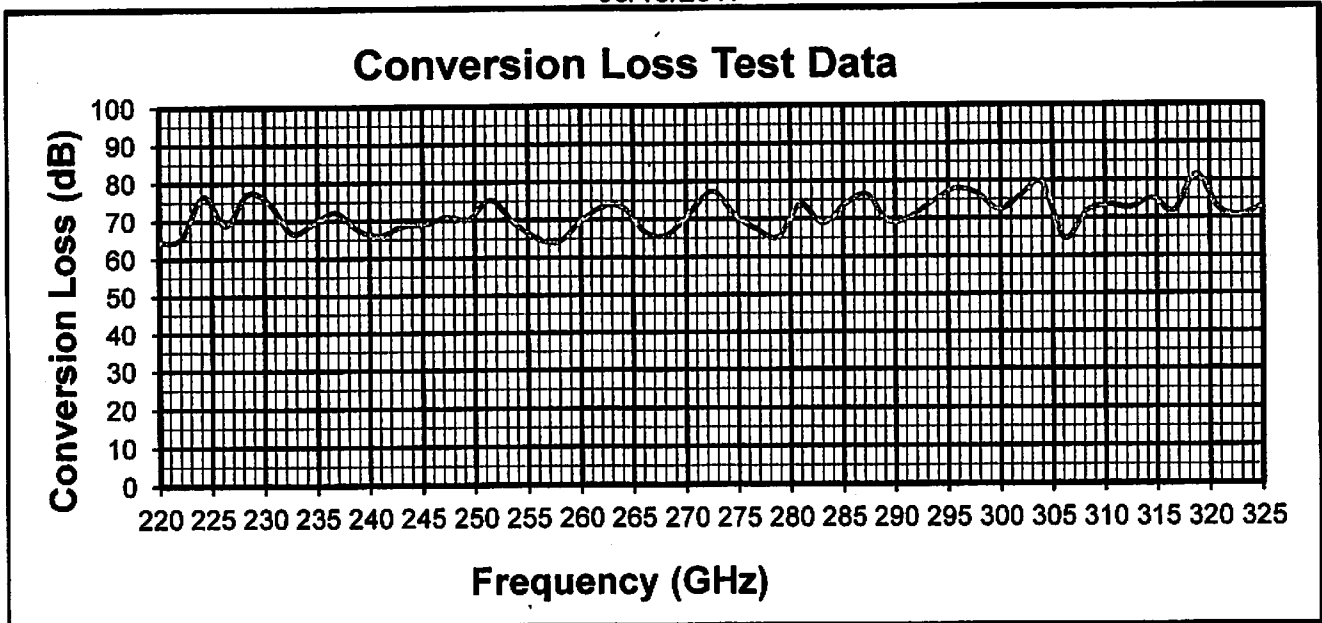


Model M03HWA
Ser No. 170615-1
06/15/2017



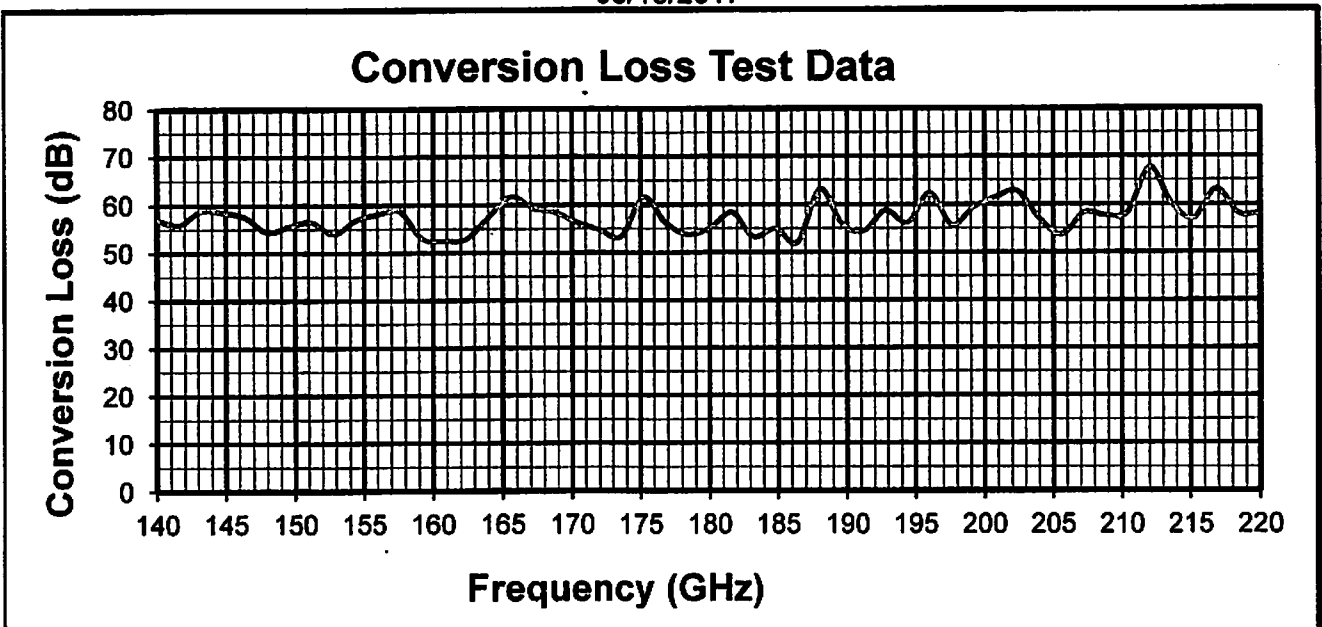
Optimized for Agilent PSA: R.F. = -30 dBm, L.O. = (RF+IF)/48 @ 15.5 dBm, I.F. = 321.4 MHz, Bias = 5.58 mA

OML INC.

4208417E

Morgan Hill, CA 95037

Model M05HWA
Ser No. 170615-1
06/15/2017



Optimized for Agilent PSA: R.F. = -30 dBm, L.O. = (RF+IF)/32 @ 15.5 dBm, I.F. = 321.4 MHz, Bias = 4.98 mA

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4208417D

Morgan Hill, CA 95037

Model M03HWA

Ser No. 170615-1

06/15/2017

Conversion Loss Test Data

Frequency (GHz)	Conversion Loss (dB)
220.00	64.32
222.10	65.65
224.20	76.68
226.30	68.93
228.40	77.30
230.50	74.67
232.60	66.83
234.70	69.45
236.80	72.22
238.90	67.47
241.00	66.15
243.10	68.55
245.20	69.00
247.30	70.92
249.40	70.39
251.50	75.42
253.60	69.44

Frequency (GHz)	Conversion Loss (dB)
255.70	65.47
257.80	64.13
259.90	69.38
262.00	73.42
264.10	73.16
266.20	66.61
268.30	66.11
270.40	71.92
272.50	77.40
274.60	71.19
276.70	67.39
278.80	65.30
280.90	73.84
283.00	68.89
285.10	73.70
287.20	76.53
289.30	69.35

Frequency (GHz)	Conversion Loss (dB)
291.40	70.57
293.50	74.52
295.60	77.90
297.70	76.76
299.80	72.42
301.90	76.00
304.00	79.33
306.10	64.76
308.20	71.77
310.30	73.50
312.40	72.79
314.50	75.18
316.60	71.96
318.70	81.62
320.80	72.53
322.90	70.98
325.00	73.26

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Traceability only available \leq 110 GHz

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Morgan Hill, CA 95037

Model M05HWA

Ser No. 170615-1

06/15/2017

Conversion Loss Test Data

Frequency (GHz)	Conversion Loss (dB)
140.00	57.02
141.60	55.99
143.20	58.97
144.80	58.57
146.40	57.57
148.00	54.52
149.60	55.76
151.20	56.58
152.80	54.09
154.40	56.96
156.00	58.17
157.60	58.76
159.20	53.05
160.80	52.60
162.40	53.04
164.00	57.59
165.60	61.74

Frequency (GHz)	Conversion Loss (dB)
167.20	59.35
168.80	58.45
170.40	56.28
172.00	54.80
173.60	53.46
175.20	61.58
176.80	56.33
178.40	53.81
180.00	55.14
181.60	58.39
183.20	53.37
184.80	55.05
186.40	52.17
188.00	63.20
189.60	55.95
191.20	54.54
192.80	58.79

Frequency (GHz)	Conversion Loss (dB)
194.40	56.26
196.00	62.40
197.60	55.80
199.20	59.42
200.80	61.54
202.40	62.76
204.00	57.03
205.60	53.70
207.20	58.29
208.80	57.69
210.40	58.40
212.00	67.67
213.60	60.17
215.20	57.10
216.80	63.21
218.40	58.13
220.00	58.13

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Traceability only available \leq 110 GHz

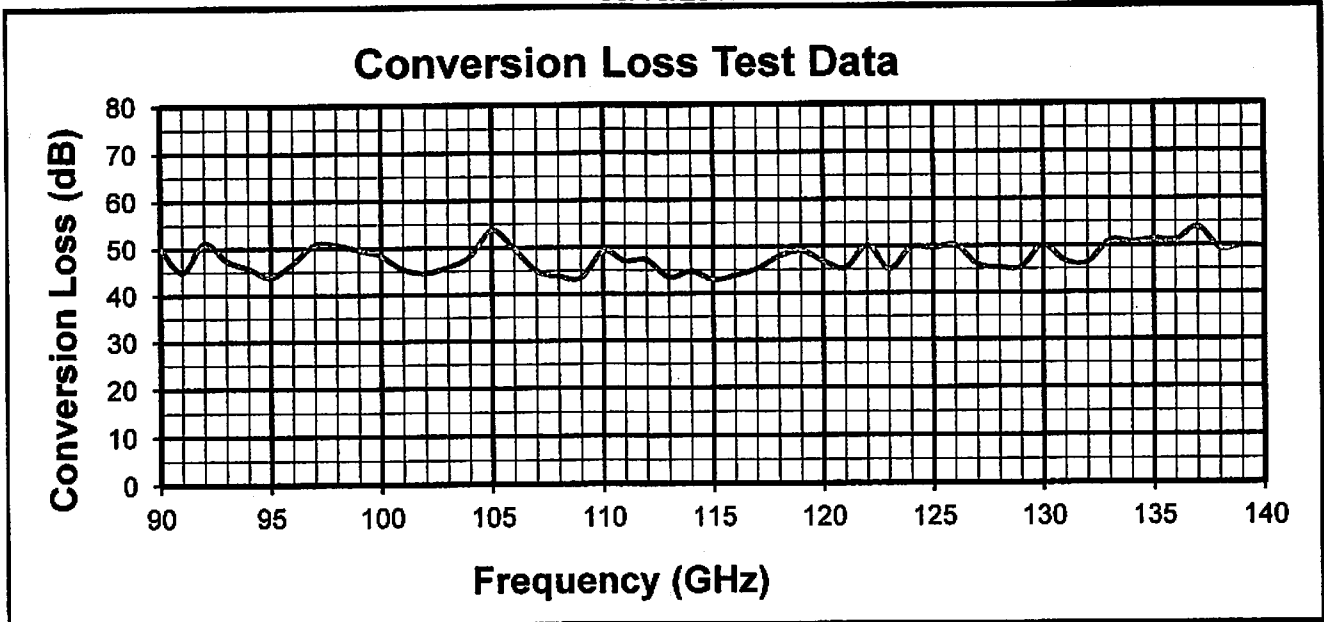
4208417D

Morgan Hill, CA 95037

Model M08HWA

Ser No. 170615-1

06/15/2017



Optimized for Agilent PSA: R.F. = -30 dBm, L.O. = (RF+IF)/22 @ 15.5 dBm, I.F. = 321.4 MHz, Bias = 1.99 mA

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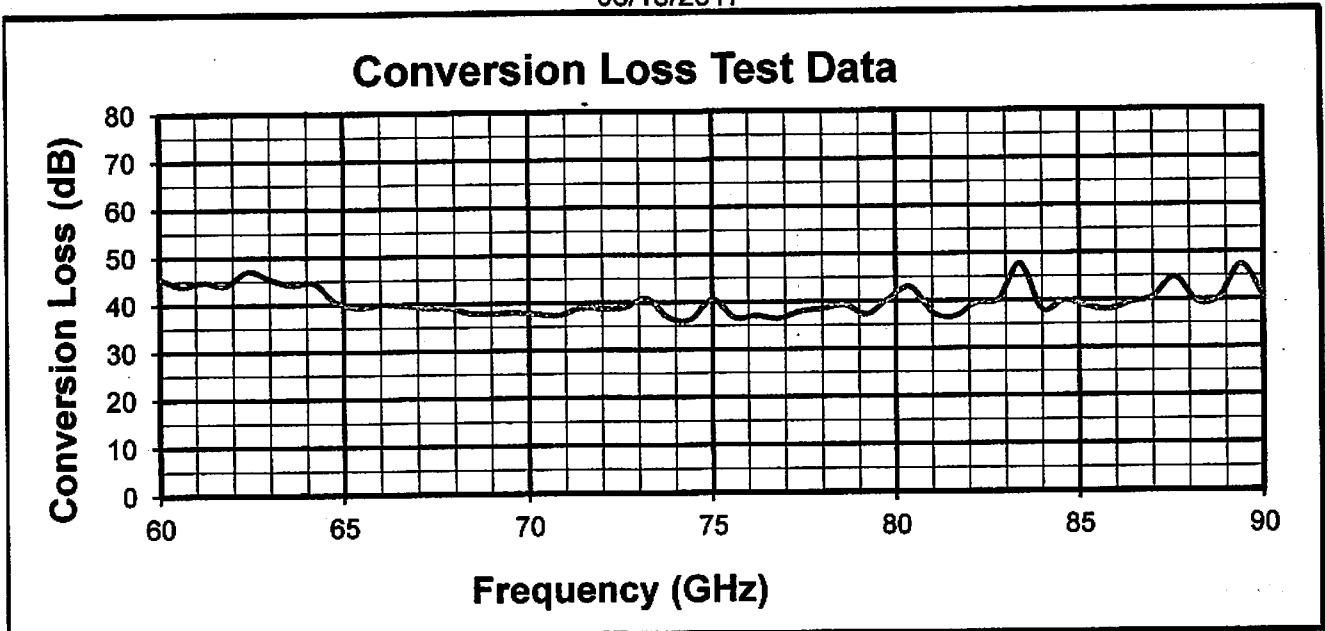
4208417C

Morgan Hill, CA 95037

Model M12HWA

Ser No. 170615-1

06/15/2017



Optimized for Agilent PSA: R.F. = -30 dBm, L.O. = (RF+IF)/16 @ 15.5 dBm, I.F. = 321.4 MHz, Bias = 2.86 mA

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4208417B

Morgan Hill, CA 95037

Model M08HWA

Ser No. 170615-1

06/15/2017

Conversion Loss Test Data

Frequency (GHz)	Conversion Loss (dB)
90.00	50.07
91.00	45.08
92.00	51.24
93.00	47.52
94.00	45.81
95.00	43.92
96.00	46.92
97.00	50.86
98.00	50.76
99.00	49.62
100.00	48.33
101.00	45.48
102.00	44.71
103.00	46.00
104.00	48.29
105.00	53.79
106.00	49.64

Frequency (GHz)	Conversion Loss (dB)
107.00	45.03
108.00	43.86
109.00	43.55
110.00	49.23
111.00	47.12
112.00	47.27
113.00	43.52
114.00	44.86
115.00	42.97
116.00	43.89
117.00	45.27
118.00	47.93
119.00	49.08
120.00	46.86
121.00	45.43
122.00	50.21
123.00	45.17

Frequency (GHz)	Conversion Loss (dB)
124.00	49.80
125.00	49.58
126.00	50.20
127.00	46.09
128.00	45.44
129.00	45.54
130.00	50.08
131.00	46.72
132.00	46.50
133.00	51.03
134.00	50.75
135.00	51.38
136.00	51.18
137.00	53.89
138.00	49.28
139.00	49.92
140.00	49.78

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Traceability only available ≤ 110 GHz

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Morgan Hill, CA 95037

Model M12HWA

Ser No. 170615-1

06/15/2017

Conversion Loss Test Data

Frequency (GHz)	Conversion Loss (dB)
60.00	45.62
60.60	43.98
61.20	44.88
61.80	44.14
62.40	47.13
63.00	45.47
63.60	44.18
64.20	44.54
64.80	40.52
65.40	39.33
66.00	39.95
66.60	39.80
67.20	39.21
67.80	39.19
68.40	38.03
69.00	37.92
69.60	38.08

Frequency (GHz)	Conversion Loss (dB)
70.20	37.76
70.80	37.45
71.40	38.92
72.00	38.78
72.60	38.96
73.20	40.92
73.80	36.79
74.40	36.38
75.00	40.58
75.60	36.67
76.20	37.10
76.80	36.47
77.40	37.94
78.00	38.47
78.60	39.23
79.20	37.29
79.80	40.49

Frequency (GHz)	Conversion Loss (dB)
80.40	42.94
81.00	37.51
81.60	36.76
82.20	39.55
82.80	40.29
83.40	47.78
84.00	38.09
84.60	39.98
85.20	38.74
85.80	38.00
86.40	39.55
87.00	40.63
87.60	44.74
88.20	39.58
88.80	40.39
89.40	47.32
90.00	40.59

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Traceability only available ≤ 110 GHz

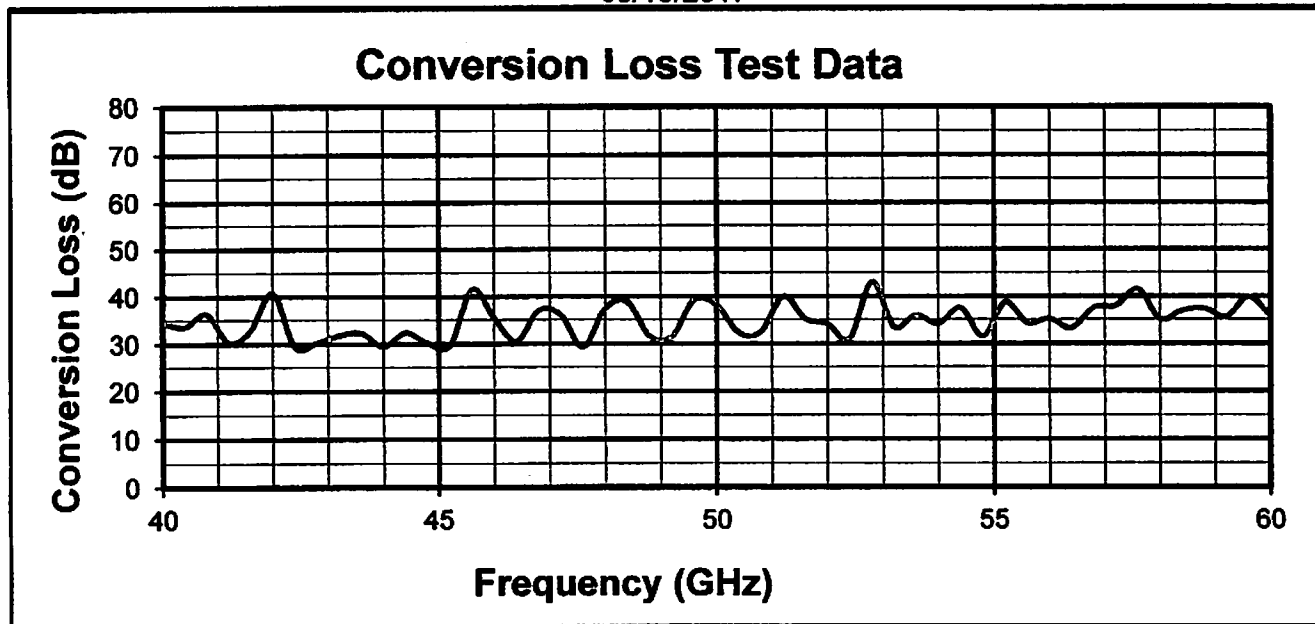
4208417B

Morgan Hill, CA 95037

Model M19HWA

Ser No. 170615-1

06/15/2017



Optimized for Agilent PSA: R.F. = -30 dBm, L.O. = (RF+IF)/10 @ 15.5 dBm, I.F. = 321.4 MHz, Bias = 5.61 mA

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Morgan Hill, CA 95037

Model M19HWA

Ser No. 170615-1

06/15/2017

Conversion Loss Test Data

Frequency (GHz)	Conversion Loss (dB)
40.00	34.47
40.40	33.64
40.80	36.33
41.20	30.41
41.60	32.89
42.00	40.94
42.40	29.52
42.80	30.29
43.20	31.82
43.60	32.32
44.00	29.52
44.40	32.43
44.80	30.22
45.20	29.70
45.60	41.65
46.00	35.48
46.40	30.56

Frequency (GHz)	Conversion Loss (dB)
46.80	37.06
47.20	36.17
47.60	29.34
48.00	37.51
48.40	38.89
48.80	31.62
49.20	31.53
49.60	39.27
50.00	38.21
50.40	32.28
50.80	32.52
51.20	40.05
51.60	35.21
52.00	34.10
52.40	31.02
52.80	43.12
53.20	33.49

Frequency (GHz)	Conversion Loss (dB)
53.60	35.98
54.00	34.12
54.40	37.55
54.80	31.48
55.20	38.76
55.60	34.31
56.00	35.21
56.40	33.28
56.80	37.60
57.20	38.04
57.60	41.61
58.00	35.09
58.40	36.96
58.80	37.42
59.20	35.63
59.60	39.90
60.00	35.76

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