



SHENZHEN HUAPTec CO., LTD
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1/10/2018

Subject: Antenna Kitting

The antenna kitting options for signal booster were done for 62 Outdoor Antenna kit options and 164 Indoor Antenna kit options. The order of the attached calculations is as follows:

Outdoor Antenna Kit Options		
1. Kit numbers: 11-100400	22. Kit numbers:10-30200	43. Kit numbers:9-30200
2. Kit numbers: 11-75400	23. Kit numbers:10-100400	44. Kit numbers:7-100400
3. Kit numbers: 11-50400	24. Kit numbers:10-75400	45. Kit numbers:7-75400
4. Kit numbers: 11-30400	25. Kit numbers:10-50400	46. Kit numbers:7-50400
5. Kit numbers: 11-100300	26. Kit numbers:10-30400	47. Kit numbers:7-30400
6. Kit numbers: 11-75300	27. Kit numbers:10-100300	48. Kit numbers:7-100300
7. Kit numbers: 11-50300	28. Kit numbers:10-75300	49. Kit numbers:7-75300
8. Kit numbers: 11-30300	29. Kit numbers:10-50300	50. Kit numbers:7-50300
9. Kit numbers: 11-75200	30. Kit numbers:10-30300	51. Kit numbers:7-30300
10. Kit numbers: 11-50200	31. Kit numbers:10-50200	52. Kit numbers:7-50200
11. Kit numbers: 11-30200	32. Kit numbers:10-30200	53. Kit numbers:7-30200
12. Kit numbers:10-100400	33. Kit numbers:9-100400	54. Kit numbers:5-10400
13. Kit numbers:10-75400	34. Kit numbers:9-75400	55. Kit numbers:5-75400
14. Kit numbers:10-50400	35. Kit numbers:9-50400	56. Kit numbers:5-50400
15. Kit numbers:10-30400	36. Kit numbers:9-30400	57. Kit numbers:5-30400
16. Kit numbers:10-100300	37. Kit numbers:9-100300	58. Kit numbers:5-75300
17. Kit numbers:10-75300	38. Kit numbers:9-75300	59. Kit numbers:5-50300
18. Kit numbers:10-50300	39. Kit numbers:9-50300	60. Kit numbers:5-30300
19. Kit numbers:10-30300	40. Kit numbers:9-30300	61. Kit numbers:5-50200
20. Kit numbers:10-75200	41. Kit numbers:9-75200	62. Kit numbers:5-30200
21. Kit numbers:10-50200	42. Kit numbers:9-50200	



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Indoor Antenna Kit Options		
1. Kit numbers:102-100400-50	56. Kit numbers:74-100300-50	111. Kit numbers:53-75200-50
2. Kit numbers:102-75400-50	57. Kit numbers:74-75300-50	112. Kit numbers:53-50200-50
3. Kit numbers:103-100400-50	58. Kit numbers:74-50300-50	113. Kit numbers:53-30200-50
4. Kit numbers:103-75400-50	59. Kit numbers:74-30300-50	114. Kit numbers:54-100200-50
5. Kit numbers:103-50400-50	60. Kit numbers:7-100200-50	115. Kit numbers:54-75200-50
6. Kit numbers:103-30400-50	61. Kit numbers:7-75200-50	116. Kit numbers:54-50200-50
7. Kit numbers:104-100400-50	62. Kit numbers:7-50200-50	117. Kit numbers:54-30200-50
8. Kit numbers:104-75400-50	63. Kit numbers:72-100200-50	118. Kit numbers:3-100400-50
9. Kit numbers:104-50400-50	64. Kit numbers:72-75200-50	119. Kit numbers:3-75400-50
10. Kit numbers:104-30400-50	65. Kit numbers:72-50200-50	120. Kit numbers:3-50400-50
11. Kit numbers:10-100300-50	66. Kit numbers:72-30200-50	121. Kit numbers:32-100400-50
12. Kit numbers:102-100300-50	67. Kit numbers:73-100200-50	122. Kit numbers:32-75400-50
13. Kit numbers:102-75300-50	68. Kit numbers:73-75200-50	123. Kit numbers:32-50400-50
14. Kit numbers:102-50300-50	69. Kit numbers:73-50200-50	124. Kit numbers:32-30400-50
15. Kit numbers:103-100300-50	70. Kit numbers:73-30200-50	125. Kit numbers:33-100400-50
16. Kit numbers:103-75300-50	71. Kit numbers:74-100200-50	126. Kit numbers:33-75400-50
17. Kit numbers:103-50300-50	72. Kit numbers:74-75200-50	127. Kit numbers:33-50400-50
18. Kit numbers:103-30300-50	73. Kit numbers:74-50200-50	128. Kit numbers:33-30400-50
19. Kit numbers:104-100300-50	74. Kit numbers:74-30200-50	129. Kit numbers:34-100400-50
20. Kit numbers:104-75300-50	75. Kit numbers:5-100400-50	130. Kit numbers:34-75400-50
21. Kit numbers:104-50300-50	76. Kit numbers:52-100400-50	131. Kit numbers:34-50400-50
22. Kit numbers:104-30300-50	77. Kit numbers:52-75400-50	132. Kit numbers:34-30400-50
23. Kit numbers:10-100200-50	78. Kit numbers:52-50400-50	133. Kit numbers:3-100300-50
24. Kit numbers:10-75200-50	79. Kit numbers:52-30400-50	134. Kit numbers:3-75300-50
25. Kit numbers:10-50200-50	80. Kit numbers:53-100400-50	135. Kit numbers:3-50300-50
26. Kit numbers:102-100200-50	81. Kit numbers:53-75400-50	136. Kit numbers:3-30300-50
27. Kit numbers:102-75200-50	82. Kit numbers:53-50400-50	137. Kit numbers:32-100300-50
28. Kit numbers:102-50200-50	83. Kit numbers:53-30400-50	138. Kit numbers:32-75300-50
29. Kit numbers:102-30200-50	84. Kit numbers:54-100400-50	139. Kit numbers:32-50300-50
30. Kit numbers:103-100200-50	85. Kit numbers:54-75400-50	140. Kit numbers:32-30300-50
31. Kit numbers:103-75200-50	86. Kit numbers:54-50400-50	141. Kit numbers:33-100300-50
32. Kit numbers:103-50200-50	87. Kit numbers:54-30400-50	142. Kit numbers:33-75300-50
33. Kit numbers:103-30200-50	88. Kit numbers:5-100300-50	143. Kit numbers:33-50300-50
34. Kit numbers:104-100200-50	89. Kit numbers:5-75300-50	144. Kit numbers:33-30300-50
35. Kit numbers:104-75200-50	90. Kit numbers:52-100300-50	145. Kit numbers:34-100300-50
36. Kit numbers:104-50200-50	91. Kit numbers:52-75300-50	146. Kit numbers:34-75300-50
37. Kit numbers:104-30200-50	92. Kit numbers:52-50300-50	147. Kit numbers:34-50300-50
38. Kit numbers:72-100400-50	93.2 Kit numbers:72-30300-50	148. Kit numbers:34-30300-50
39. Kit numbers:72-75400-50	94. Kit numbers:53-100300-50	149. Kit numbers:3-100200-50



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40. Kit numbers:73-100400-50	95. Kit numbers:53-75300-50	150. Kit numbers:3-75200-50
41. Kit numbers:73-75400-50	96. Kit numbers:53-50300-50	151. Kit numbers:3-50200-50
42. Kit numbers:73-50400-50	97. Kit numbers:53-30300-50	152. Kit numbers:3-30200-50
43. Kit numbers:73-30400-50	98. Kit numbers:54-100300-50	153. Kit numbers:32-100200-50
44. Kit numbers:74-100400-50	19. Kit numbers:54-75300-50	154. Kit numbers:32-75200-50
45. Kit numbers:74-75400-50	100. Kit numbers:54-50300-50	155. Kit numbers:32-50200-50
46. Kit numbers:74-50400-50	101. Kit numbers:54-30300-50	156. Kit numbers:32-30200-50
47. Kit numbers:74-30400-50	102. Kit numbers:5-100200-50	157. Kit numbers:33-100200-50
48. Kit numbers:7-100300-50	103. Kit numbers:5-75200-50	158. Kit numbers:33-75200-50
49. Kit numbers:72-100300-50	104. Kit numbers:5-50200-50	159. Kit numbers:33-50200-50
50. Kit numbers:72-75300-50	105. Kit numbers:5-30200-50	160. Kit numbers:33-30200-50
51. Kit numbers:72-50300-50	106. Kit numbers:52-100200-50	161. Kit numbers:34-100200-50
52. Kit numbers:73-100300-50	107. Kit numbers:52-75200-50	162. Kit numbers:34-75200-50
53. Kit numbers:73-75300-50	108. Kit numbers:52-50200-50	163. Kit numbers:34-50200-50
54. Kit numbers:73-50300-50	109. Kit numbers:72-30200-50	164. Kit numbers:34-30200-50
55. Kit numbers:73-30300-50	110. Kit numbers:53-100200-50	



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Outdoor Antenna kit Options

Final Output Power Limited to 30 dBm EIRP in all Frequency Bands

Uplink Frequency(MHz)	824-849	1850-1915
Uplink Output Power(dBm)	19.9	19.9

1.Wide Band Directional Antenna 11dbi Antenna with 100' 400 N male Kit numbers: 11-100400

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	6	5
Final Output Power (dBm EIRP)	25.9	24.9

2.Wide Band Directional Antenna 11dbi Antenna with 75' 400 N male Kit numbers: 11-75400

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	7	6.5
Final Output Power (dBm EIRP)	26.9	26.4

3.Wide Band Directional Antenna 11dbi Antenna with 50' 400 N male Kit numbers: 11-50400

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	8	8
Final Output Power (dBm EIRP)	27.9	27.9

4.Wide Band Directional Antenna 11dbi Antenna with 30' 400 N male Kit numbers: 11-30400

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	8.8	9.2
Final Output Power (dBm EIRP)	28.7	29.1

5.Wide Band Directional Antenna 11dbi Antenna with 100' 300 N male Kit numbers: 11-100300

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	6	9.2
Final Gain Less Loss (dB)	4	1.8
Final Output Power (dBm EIRP)	23.9	21.7

6.Wide Band Directional Antenna 11dbi Antenna with 75' 300 N male Kit numbers: 11-75300

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	5.5	4
Final Output Power (dBm EIRP)	25.4	23.9



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7.Wide Band Directional Antenna 11dbi Antenna with 50' 300 N male Kit numbers: 11-50300

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	7	6.4
Final Output Power (dBm EIRP)	26.9	26.3

8.Wide Band Directional Antenna 11dbi Antenna with 30' 300 N male Kit numbers: 11-30300

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	8.2	8.2
Final Output Power (dBm EIRP)	28.1	28.1

9.Wide Band Directional Antenna 11dbi Antenna with 75' 200 N male Kit numbers: 11-75200

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	10.7	11.3
Final Gain Less Loss (dB)	-0.7	-0.3
Final Output Power (dBm EIRP)	19.2	19.6

10.Wide Band Directional Antenna 11dbi Antenna with 50' 200 N male Kit numbers: 11-50200

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	2.9	3.5
Final Output Power (dBm EIRP)	22.8	23.4

11.Wide Band Directional Antenna 11dbi Antenna with 30' 200 N male Kit numbers: 11-30200

Antenna Gain (dBi)	10	11
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	5.7	6.5
Final Output Power (dBm EIRP)	25.6	26.4

12.Panel Antenna with 100' 400 N male Kit numbers:10-100400

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	4	4
Final Output Power (dBm EIRP)	23.9	23.9

13.Panel Antenna with 75' 400 N male Kit numbers:10-75400

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	5	5.5
Final Output Power (dBm EIRP)	24.9	25.4



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14. Panel Antenna with 50' 400 N male Kit numbers:10-50400

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	6	7
Final Output Power (dBm EIRP)	25.9	26.9

15. Panel 10dbi Antenna with 30' 400 N male Kit numbers:10-30400

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	6.8	8.2
Final Output Power (dBm EIRP)	26.7	28.1

16. Panel Antenna with 100' 300 N male Kit numbers:10-100300

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	6	9.2
Final Gain Less Loss (dB)	2	0.8
Final Output Power (dBm EIRP)	21.9	20.7

17. Panel Antenna with 75' 300 N male Kit numbers:10-75300

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	3.5	3
Final Output Power (dBm EIRP)	23.4	22.9

18. Panel Antenna with 50' 300 N male Kit numbers:10-50300

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	5	5.4
Final Output Power (dBm EIRP)	24.9	25.3

19. Panel Antenna with 30' 300 N male Kit numbers:10-30300

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	6.2	7.2
Final Output Power (dBm EIRP)	26.1	27.1

20. Panel Antenna with 75' 200 N male Kit numbers:10-75200

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	10.65	11.27
Final Gain Less Loss (dB)	-2.7	-1.3
Final Output Power (dBm EIRP)	17.25	18.63



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21. Panel Antenna with 50' 200 N male Kit numbers:10-50200

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	0.9	2.5
Final Output Power (dBm EIRP)	20.8	22.4

22. Panel Antenna with 30' 200 N male Kit numbers:10-30200

Antenna Gain (dBi)	8	10
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	3.7	5.5
Final Output Power (dBm EIRP)	23.6	25.4

23. Panel Antenna with 100' 400 N male Kit numbers:10-100400

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	2.5	3.4
Final Output Power (dBm EIRP)	22.4	23.3

24. Panel Antenna with 75' 400 N male Kit numbers:10-75400

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	3.5	4.9
Final Output Power (dBm EIRP)	23.4	24.8

25. Panel Antenna with 50' 400 N male Kit numbers:10-50400

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	4.5	6.4
Final Output Power (dBm EIRP)	24.4	26.3

26. Panel 10dbi Antenna with 30' 400 N male Kit numbers:10-30400

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	5.3	7.6
Final Output Power (dBm EIRP)	25.2	27.5

27. Panel Antenna with 100' 300 N male Kit numbers:10-100300

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	6	9.2
Final Gain Less Loss (dB)	0.5	0.2
Final Output Power (dBm EIRP)	20.4	20.1



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28. Panel Antenna with 75' 300 N male Kit numbers:10-75300

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	2	2.4
Final Output Power (dBm EIRP)	21.9	22.3

29. Panel Antenna with 50' 300 N male Kit numbers:10-50300

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	3.5	4.8
Final Output Power (dBm EIRP)	23.4	24.7

30. Panel Antenna with 30' 300 N male Kit numbers:10-30300

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	4.7	6.6
Final Output Power (dBm EIRP)	24.6	26.5

31. Panel Antenna with 50' 200 N male Kit numbers:10-50200

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	-0.6	1.9
Final Output Power (dBm EIRP)	19.3	21.8

32. Panel Antenna with 30' 200 N male Kit numbers:10-30200

Antenna Gain (dBi)	6.5	9.4
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	2.2	4.9
Final Output Power (dBm EIRP)	22.1	24.8

33. Wide Band Directional Antenna with 100' 400 N male Kit numbers:9-100400

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	4	3.5
Final Output Power (dBm EIRP)	23.9	23.4

34. Wide Band Directional Antenna with 75' 400 N male Kit numbers:9-75400

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	5	5
Final Output Power (dBm EIRP)	24.9	24.9



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35. Wide Band Directional Antenna with 50' 400 N male Kit numbers:9-50400

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	6	6.5
Final Output Power (dBm EIRP)	25.9	26.4

36. Wide Band Directional Antenna with 30' 400 N male Kit numbers:9-30400

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	6.8	7.7
Final Output Power (dBm EIRP)	26.7	27.6

37. Wide Band Directional Antenna with 100' 300 N male Kit numbers:9-100300

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	6	9.2
Final Gain Less Loss (dB)	2	0.3
Final Output Power (dBm EIRP)	21.9	20.2

38. Wide Band Directional Antenna with 75' 300 N male Kit numbers:9-75300

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	3.5	2.5
Final Output Power (dBm EIRP)	23.4	22.4

39. Wide Band Directional Antenna with 50' 300 N male Kit numbers:9-50300

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	5	4.9
Final Output Power (dBm EIRP)	24.9	24.8

40. Wide Band Directional Antenna with 30' 300 N male Kit numbers:9-30300

Antenna Gain (dBi)	8	9.5
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	6.2	6.7
Final Output Power (dBm EIRP)	26.1	26.6

41. Wide Band Directional Antenna with 75' 200 N male Kit numbers:9-75200

Antenna Gain (dBi)	8.0	9.5
Coax Cable Loss (dB)	10.7	11.3
Final Gain Less Loss (dB)	-2.7	-1.8
Final Output Power (dBm EIRP)	17.2	18.1



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42.Wide Band Directional Antenna with 50' 200 N male Kit numbers:9-50200

Antenna Gain (dBi)	8.0	9.5
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	0.9	2.0
Final Output Power (dBm EIRP)	20.8	21.9

43.Wide Band Directional Antenna with 30' 200 N male Kit numbers:9-30200

Antenna Gain (dBi)	8.0	9.5
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	3.7	5.0
Final Output Power (dBm EIRP)	23.6	24.9

44.Panel Antenna with 100' 400 N male Kit numbers:7-100400

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	3	1
Final Output Power (dBm EIRP)	22.9	20.9

45.Panel Antenna with 75' 400 N male Kit numbers:7-75400

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	4	2.5
Final Output Power (dBm EIRP)	23.9	22.4

46.Panel Antenna with 50' 400 N male Kit numbers:7-50400

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	5	4
Final Output Power (dBm EIRP)	24.9	23.9

47.Panel Antenna with 30' 400 N male Kit numbers:7-30400

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	5.8	5.2
Final Output Power (dBm EIRP)	25.7	25.1

48.Panel Antenna with 100' 300 N male Kit numbers:7-100300

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	6	9.2
Final Gain Less Loss (dB)	1	-2.2
Final Output Power (dBm EIRP)	20.9	17.7



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49. Panel Antenna with 75' 300 N male Kit numbers:7-75300

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	2.5	0
Final Output Power (dBm EIRP)	22.4	19.9

50. Panel Antenna with 50' 300 N male Kit numbers:7-50300

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	4	2.4
Final Output Power (dBm EIRP)	23.9	22.3

51. Panel Antenna with 30' 300 N male Kit numbers:7-30300

Antenna Gain (dBi)	7	7
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	5.2	4.2
Final Output Power (dBm EIRP)	25.1	24.1

52. Panel Antenna with 50' 200 N male Kit numbers:7-50200

Antenna Gain (dBi)	7.0	7.0
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	-0.1	-0.5
Final Output Power (dBm EIRP)	19.8	19.4

53. Panel Antenna with 30' 200 N male Kit numbers:7-30200

Antenna Gain (dBi)	7.0	7.0
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	2.7	2.5
Final Output Power (dBm EIRP)	22.6	22.4

54. Omni Directional Antenna with 100' 400 N male Kit numbers:5-10400

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	4	6
Final Gain Less Loss (dB)	1	-1
Final Output Power (dBm EIRP)	20.9	18.9

55. Omni Directional Antenna with 75' 400 N male Kit numbers:5-75400

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	3	4.5
Final Gain Less Loss (dB)	2	0.5
Final Output Power (dBm EIRP)	21.9	20.4



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56.Omni Directional Antenna with 50' 400 N male Kit numbers:5-50400

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	2	3
Final Gain Less Loss (dB)	3	2
Final Output Power (dBm EIRP)	22.9	21.9

57.Omni Directional Antenna with 30' 400 N male Kit numbers:5-30400

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	1.2	1.8
Final Gain Less Loss (dB)	3.8	3.2
Final Output Power (dBm EIRP)	23.7	23.1

58.Omni Directional Antenna with 75' 300 N male Kit numbers:5-75300

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	4.5	7
Final Gain Less Loss (dB)	0.5	-2
Final Output Power (dBm EIRP)	20.4	17.9

59.Omni Directional Antenna with 50' 300 N male Kit numbers:5-50300

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	3	4.6
Final Gain Less Loss (dB)	2	0.4
Final Output Power (dBm EIRP)	21.9	20.3

60.Omni Directional Antenna with 30' 300 N male Kit numbers:5-30300

Antenna Gain (dBi)	5	5
Coax Cable Loss (dB)	1.8	2.8
Final Gain Less Loss (dB)	3.2	2.2
Final Output Power (dBm EIRP)	23.1	22.1

61.Omni Directional Antenna with 50' 200 N male Kit numbers:5-50200

Antenna Gain (dBi)	5.0	5.0
Coax Cable Loss (dB)	7.1	7.5
Final Gain Less Loss (dB)	-2.1	-2.5
Final Output Power (dBm EIRP)	17.8	17.4

62.Omni Directional Antenna with 30' 200 N male Kit numbers:5-30200

Antenna Gain (dBi)	5.0	5.0
Coax Cable Loss (dB)	4.3	4.5
Final Gain Less Loss (dB)	0.7	0.5
Final Output Power (dBm EIRP)	20.6	20.4



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Indoor Antenna kit Options

Uplink Frequency(MHz)	824-849	1850-1915
Measured Uplink Gain(dB)	58.5	65.7
MSCL Minimum (dB)	38.0	44.1
6' Separation Distance Path Loss (dB)	36.2	43.2
Polarity Loss (dB)	3.0	3.0
Max Antenna Gain with Coax Loss (dB)	1.2	2.1

1.2 Panel Antenna with 100' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-100400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	7.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-1	-0.1
Antenna Gain with Coax Loss Margin (dB)	-2.20	-2.20
Final Output Power (dBm EIRP)	14.80	14.50

2.2 Panel Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-75400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	6.5	8
Final Gain Less Splitter/Coax Loss (dB)	0	1.4
Antenna Gain with Coax Loss Margin (dB)	-1.20	-0.70
Final Output Power (dBm EIRP)	15.80	16.00

3.3 Panel Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-100400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	9.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-3	-2.1
Antenna Gain with Coax Loss Margin (dB)	-4.20	-4.20
Final Output Power (dBm EIRP)	12.80	12.50

4.3 Panel Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-75400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	8.5	10
Final Gain Less Splitter/Coax Loss (dB)	-2	-0.6
Antenna Gain with Coax Loss Margin (dB)	-3.20	-2.70
Final Output Power (dBm EIRP)	13.80	14.00



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5.3 Panel Antenna with50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-50400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	7.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-1	0.9
Antenna Gain with Coax Loss Margin (dB)	-2.20	-1.20
Final Output Power (dBm EIRP)	14.80	15.50

6.3 Panel Antenna with30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-30400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	6.7	7.3
Final Gain Less Splitter/Coax Loss (dB)	-0.2	2.1
Antenna Gain with Coax Loss Margin (dB)	-1.40	0.00
Final Output Power (dBm EIRP)	15.60	16.70

7.4 Panel Antenna with100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-100400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	10.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-4	-3.1
Antenna Gain with Coax Loss Margin (dB)	-5.20	-5.20
Final Output Power (dBm EIRP)	11.80	11.50

8.4 Panel Antenna with75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-75400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	9.5	11
Final Gain Less Splitter/Coax Loss (dB)	-3	-1.6
Antenna Gain with Coax Loss Margin (dB)	-4.20	-3.70
Final Output Power (dBm EIRP)	12.80	13.00

9.4 Panel Antenna with50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-50400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	8.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-2	-0.1
Antenna Gain with Coax Loss Margin (dB)	-3.20	-2.20
Final Output Power (dBm EIRP)	13.80	14.50

10.4 Panel Antenna with30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-30400-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	7.7	8.3
Final Gain Less Splitter/Coax Loss (dB)	-1.2	1.1
Antenna Gain with Coax Loss Margin (dB)	-2.40	-1.00
Final Output Power (dBm EIRP)	14.60	15.70



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11.1 Panel Antenna with 100' 300 N male Kit numbers:10-100300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	6	9.2
Final Gain Less Splitter/Coax Loss (dB)	0.5	0.2
Antenna Gain with Coax Loss Margin (dB)	-0.70	-1.90
Final Output Power (dBm EIRP)	16.30	14.80

12.2 Panel Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-100300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	9.5	12.7
Final Gain Less Splitter/Coax Loss (dB)	-3	-3.3
Antenna Gain with Coax Loss Margin (dB)	-4.20	-5.40
Final Output Power (dBm EIRP)	12.80	11.30

13.2 Panel Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-75300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	8	10.5
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-1.1
Antenna Gain with Coax Loss Margin (dB)	-2.70	-3.20
Final Output Power (dBm EIRP)	14.30	13.50

14.2 Panel Antenna with 50' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-50300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	6.5	8.1
Final Gain Less Splitter/Coax Loss (dB)	0	1.3
Antenna Gain with Coax Loss Margin (dB)	-1.20	-0.80
Final Output Power (dBm EIRP)	15.80	15.90

15.3 Panel Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-100300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	11.5	14.7
Final Gain Less Splitter/Coax Loss (dB)	-5	-5.3
Antenna Gain with Coax Loss Margin (dB)	-6.20	-7.40
Final Output Power (dBm EIRP)	10.80	9.30

16.3 Panel Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-75300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	10	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-3.1
Antenna Gain with Coax Loss Margin (dB)	-4.70	-5.20
Final Output Power (dBm EIRP)	12.30	11.50



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17.3 Panel Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-50300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	8.5	10.1
Final Gain Less Splitter/Coax Loss (dB)	-2	-0.7
Antenna Gain with Coax Loss Margin (dB)	-3.20	-2.80
Final Output Power (dBm EIRP)	13.80	13.90

18.3 Panel Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-30300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	7.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-0.8	1.1
Antenna Gain with Coax Loss Margin (dB)	-2.00	-1.00
Final Output Power (dBm EIRP)	15.00	15.70

19.4 Panel Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-100300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	12.5	15.7
Final Gain Less Splitter/Coax Loss (dB)	-6	-6.3
Antenna Gain with Coax Loss Margin (dB)	-7.20	-8.40
Final Output Power (dBm EIRP)	9.80	8.30

20.4 Panel Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-75300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	11	13.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-4.1
Antenna Gain with Coax Loss Margin (dB)	-5.70	-6.20
Final Output Power (dBm EIRP)	11.30	10.50

21.4 Panel Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-50300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	9.5	11.1
Final Gain Less Splitter/Coax Loss (dB)	-3	-1.7
Antenna Gain with Coax Loss Margin (dB)	-4.20	-3.80
Final Output Power (dBm EIRP)	12.80	12.90

22.4 Panel Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-30300-50

Antenna Gain (dBi)	6.5	9.4
Splitter/Coax Loss (dB)	8.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-1.8	0.1
Antenna Gain with Coax Loss Margin (dB)	-3.00	-2.00
Final Output Power (dBm EIRP)	14.00	14.70



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23.1 Panel Antenna with 100' 200 N male Kit numbers:10-100200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	14.20	15.03
Final Gain Less Splitter/Coax Loss (dB)	-7.70	-5.63
Antenna Gain with Coax Loss Margin (dB)	-8.90	-7.73
Final Output Power (dBm EIRP)	8.10	8.97

24.1 Panel Antenna with 75' 200 N male Kit numbers:10-75200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	10.65	11.27
Final Gain Less Splitter/Coax Loss (dB)	-4.15	-1.87
Antenna Gain with Coax Loss Margin (dB)	-5.35	-3.97
Final Output Power (dBm EIRP)	11.65	12.73

25.1 Panel Antenna with 50' 200 N male Kit numbers:10-50200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	7.1	7.5
Final Gain Less Splitter/Coax Loss (dB)	-0.60	1.89
Antenna Gain with Coax Loss Margin (dB)	-1.80	-0.21
Final Output Power (dBm EIRP)	15.20	16.49

26.2 Panel Antenna with 100' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-100200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	17.70	18.53
Final Gain Less Splitter/Coax Loss (dB)	-11.20	-9.13
Antenna Gain with Coax Loss Margin (dB)	-12.40	-11.23
Final Output Power (dBm EIRP)	4.60	5.47

27.2 Panel Antenna with 75' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-75200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	14.15	14.77
Final Gain Less Splitter/Coax Loss (dB)	-7.65	-5.37
Antenna Gain with Coax Loss Margin (dB)	-8.85	-7.47
Final Output Power (dBm EIRP)	8.15	9.23

28.2 Panel Antenna with 50' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-50200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	10.6	11.0
Final Gain Less Splitter/Coax Loss (dB)	-4.10	-1.61
Antenna Gain with Coax Loss Margin (dB)	-5.30	-3.71
Final Output Power (dBm EIRP)	11.70	12.99



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29.2 Panel Antenna with 30' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:102-30200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	7.76	8.01
Final Gain Less Splitter/Coax Loss (dB)	-1.26	1.39
Antenna Gain with Coax Loss Margin (dB)	-2.46	-0.71
Final Output Power (dBm EIRP)	14.54	15.99

30.3 Panel Antenna with 100' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-100200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	19.70	20.53
Final Gain Less Splitter/Coax Loss (dB)	-13.20	-11.13
Antenna Gain with Coax Loss Margin (dB)	-14.40	-13.23
Final Output Power (dBm EIRP)	2.60	3.47

31.3 Panel Antenna with 75' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-75200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	16.15	16.77
Final Gain Less Splitter/Coax Loss (dB)	-9.65	-7.37
Antenna Gain with Coax Loss Margin (dB)	-10.85	-9.47
Final Output Power (dBm EIRP)	6.15	7.23

32.3 Panel Antenna with 50' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-50200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	12.60	13.01
Final Gain Less Splitter/Coax Loss (dB)	-6.10	-3.61
Antenna Gain with Coax Loss Margin (dB)	-7.30	-5.71
Final Output Power (dBm EIRP)	9.70	10.99

33.3 Panel Antenna with 30' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:103-30200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	9.8	10.0
Final Gain Less Splitter/Coax Loss (dB)	-3.26	-0.61
Antenna Gain with Coax Loss Margin (dB)	-4.46	-2.71
Final Output Power (dBm EIRP)	12.54	13.99

34.4 Panel Antenna with 100' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-100200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	20.70	21.53
Final Gain Less Splitter/Coax Loss (dB)	-14.20	-12.13
Antenna Gain with Coax Loss Margin (dB)	-15.40	-14.23
Final Output Power (dBm EIRP)	1.60	2.47



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35.4 Panel Antenna with 75' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-75200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	17.15	17.77
Final Gain Less Splitter/Coax Loss (dB)	-10.65	-8.37
Antenna Gain with Coax Loss Margin (dB)	-11.85	-10.47
Final Output Power (dBm EIRP)	5.15	6.23

36.4 Panel Antenna with 50' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-50200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	13.60	14.01
Final Gain Less Splitter/Coax Loss (dB)	-7.10	-4.61
Antenna Gain with Coax Loss Margin (dB)	-8.30	-6.71
Final Output Power (dBm EIRP)	8.70	9.99

37.4 Panel Antenna with 30' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:104-30200-50

Antenna Gain (dBi)	6.50	9.40
Splitter/Coax Loss (dB)	10.8	11.0
Final Gain Less Splitter/Coax Loss (dB)	-4.26	-1.61
Antenna Gain with Coax Loss Margin (dB)	-5.46	-3.71
Final Output Power (dBm EIRP)	11.54	12.99

38.2 Panel Antenna with 100' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-100400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	7.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-0.5	-2.5
Antenna Gain with Coax Loss Margin (dB)	-1.70	-4.60
Final Output Power (dBm EIRP)	15.30	12.10

39.2 Panel Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-75400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	6.5	8
Final Gain Less Splitter/Coax Loss (dB)	0.5	-1
Antenna Gain with Coax Loss Margin (dB)	-0.70	-3.10
Final Output Power (dBm EIRP)	16.30	13.60

40.3 Panel Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-100400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	9.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-4.5
Antenna Gain with Coax Loss Margin (dB)	-3.70	-6.60
Final Output Power (dBm EIRP)	13.30	10.10



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41.3 Panel Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-75400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	8.5	10
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-3
Antenna Gain with Coax Loss Margin (dB)	-2.70	-5.10
Final Output Power (dBm EIRP)	14.30	11.60

42.3 Panel Antenna with 50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-50400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	7.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-0.5	-1.5
Antenna Gain with Coax Loss Margin (dB)	-1.70	-3.60
Final Output Power (dBm EIRP)	15.30	13.10

43.3 Panel Antenna with 30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-30400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	6.7	7.3
Final Gain Less Splitter/Coax Loss (dB)	0.3	-0.3
Antenna Gain with Coax Loss Margin (dB)	-0.90	-2.40
Final Output Power (dBm EIRP)	16.10	14.30

44.4 Panel Antenna with 100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-100400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	10.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-5.5
Antenna Gain with Coax Loss Margin (dB)	-4.70	-7.60
Final Output Power (dBm EIRP)	12.30	9.10

45.4 Panel Antenna with 75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-75400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	9.5	11
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-4
Antenna Gain with Coax Loss Margin (dB)	-3.70	-6.10
Final Output Power (dBm EIRP)	13.30	10.60

46.4 Panel Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-50400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	8.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-2.5
Antenna Gain with Coax Loss Margin (dB)	-2.70	-4.60
Final Output Power (dBm EIRP)	14.30	12.10



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47.4 Panel Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-30400-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	7.7	8.3
Final Gain Less Splitter/Coax Loss (dB)	-0.7	-1.3
Antenna Gain with Coax Loss Margin (dB)	-1.90	-3.40
Final Output Power (dBm EIRP)	15.10	13.30

48.1 Panel Antenna with 100' 300 N male Kit numbers:7-100300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	6	9.2
Final Gain Less Splitter/Coax Loss (dB)	1	-2.2
Antenna Gain with Coax Loss Margin (dB)	-0.20	-4.30
Final Output Power (dBm EIRP)	16.80	12.40

49.2 Panel Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-100300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	9.5	12.7
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-5.7
Antenna Gain with Coax Loss Margin (dB)	-3.70	-7.80
Final Output Power (dBm EIRP)	13.30	8.90

50.2 Panel Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-75300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	8	10.5
Final Gain Less Splitter/Coax Loss (dB)	-1	-3.5
Antenna Gain with Coax Loss Margin (dB)	-2.20	-5.60
Final Output Power (dBm EIRP)	14.80	11.10

51.2 Panel Antenna with 50' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-50300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	6.5	8.1
Final Gain Less Splitter/Coax Loss (dB)	0.5	-1.1
Antenna Gain with Coax Loss Margin (dB)	-0.70	-3.20
Final Output Power (dBm EIRP)	16.30	13.50

52.3 Panel Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-100300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	11.5	14.7
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-7.7
Antenna Gain with Coax Loss Margin (dB)	-5.70	-9.80
Final Output Power (dBm EIRP)	11.30	6.90



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53.3 Panel Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-75300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	10	12.5
Final Gain Less Splitter/Coax Loss (dB)	-3	-5.5
Antenna Gain with Coax Loss Margin (dB)	-4.20	-7.60
Final Output Power (dBm EIRP)	12.80	9.10

54.3 Panel Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-50300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	8.5	10.1
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-3.1
Antenna Gain with Coax Loss Margin (dB)	-2.70	-5.20
Final Output Power (dBm EIRP)	14.30	11.50

55.3 Panel Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-30300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	7.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-0.3	-1.3
Antenna Gain with Coax Loss Margin (dB)	-1.50	-3.40
Final Output Power (dBm EIRP)	15.50	13.30

56.4 Panel Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-100300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	12.5	15.7
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-8.7
Antenna Gain with Coax Loss Margin (dB)	-6.70	-10.80
Final Output Power (dBm EIRP)	10.30	5.90

57.4 Panel Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-75300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	11	13.5
Final Gain Less Splitter/Coax Loss (dB)	-4	-6.5
Antenna Gain with Coax Loss Margin (dB)	-5.20	-8.60
Final Output Power (dBm EIRP)	11.80	8.10

58.4 Panel Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-50300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	9.5	11.1
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-4.1
Antenna Gain with Coax Loss Margin (dB)	-3.70	-6.20
Final Output Power (dBm EIRP)	13.30	10.50



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59.4 Panel Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-30300-50

Antenna Gain (dBi)	7	7
Splitter/Coax Loss (dB)	8.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-1.3	-2.3
Antenna Gain with Coax Loss Margin (dB)	-2.50	-4.40
Final Output Power (dBm EIRP)	14.50	12.30

60.1 Panel Antenna with 100' 200 N male Kit numbers:7-100200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	14.20	15.03
Final Gain Less Splitter/Coax Loss (dB)	-7.20	-8.03
Antenna Gain with Coax Loss Margin (dB)	-8.40	-10.13
Final Output Power (dBm EIRP)	8.60	6.57

61.1 Panel Antenna with 75' 200 N male Kit numbers:7-75200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	10.65	11.27
Final Gain Less Splitter/Coax Loss (dB)	-3.65	-4.27
Antenna Gain with Coax Loss Margin (dB)	-4.85	-6.37
Final Output Power (dBm EIRP)	12.15	10.33

62.1 Panel Antenna with 50' 200 N male Kit numbers:7-50200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	7.10	7.51
Final Gain Less Splitter/Coax Loss (dB)	-0.10	-0.51
Antenna Gain with Coax Loss Margin (dB)	-1.30	-2.61
Final Output Power (dBm EIRP)	15.70	14.09

63.2 Panel Antenna with 100' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-100200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	17.70	18.53
Final Gain Less Splitter/Coax Loss (dB)	-10.70	-11.53
Antenna Gain with Coax Loss Margin (dB)	-11.90	-13.63
Final Output Power (dBm EIRP)	5.10	3.07

64.2 Panel Antenna with 75' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-75200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	14.15	14.77
Final Gain Less Splitter/Coax Loss (dB)	-7.15	-7.77
Antenna Gain with Coax Loss Margin (dB)	-8.35	-9.87
Final Output Power (dBm EIRP)	8.65	6.83



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65.2 Panel Antenna with 50' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-50200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	10.60	11.01
Final Gain Less Splitter/Coax Loss (dB)	-3.60	-4.01
Antenna Gain with Coax Loss Margin (dB)	-4.80	-6.11
Final Output Power (dBm EIRP)	12.20	10.59

66.2 Panel Antenna with 30' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-30200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	7.76	8.01
Final Gain Less Splitter/Coax Loss (dB)	-0.76	-1.01
Antenna Gain with Coax Loss Margin (dB)	-1.96	-3.11
Final Output Power (dBm EIRP)	15.04	13.59

67.3 Panel Antenna with 100' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-100200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	19.70	20.53
Final Gain Less Splitter/Coax Loss (dB)	-12.70	-13.53
Antenna Gain with Coax Loss Margin (dB)	-13.90	-15.63
Final Output Power (dBm EIRP)	3.10	1.07

68.3 Panel Antenna with 75' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-75200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	16.15	16.77
Final Gain Less Splitter/Coax Loss (dB)	-9.15	-9.77
Antenna Gain with Coax Loss Margin (dB)	-10.35	-11.87
Final Output Power (dBm EIRP)	6.65	4.83

69.3 Panel Antenna with 50' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-50200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	12.60	13.01
Final Gain Less Splitter/Coax Loss (dB)	-5.60	-6.01
Antenna Gain with Coax Loss Margin (dB)	-6.80	-8.11
Final Output Power (dBm EIRP)	10.20	8.59

70.3 Panel Antenna with 30' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:73-30200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	9.76	10.01
Final Gain Less Splitter/Coax Loss (dB)	-2.76	-3.01
Antenna Gain with Coax Loss Margin (dB)	-3.96	-5.11
Final Output Power (dBm EIRP)	13.04	11.59



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71.4 Panel Antenna with100' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-100200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	20.70	21.53
Final Gain Less Splitter/Coax Loss (dB)	-13.70	-14.53
Antenna Gain with Coax Loss Margin (dB)	-14.90	-16.63
Final Output Power (dBm EIRP)	2.10	0.07

72.4 Panel Antenna with75' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-75200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	17.15	17.77
Final Gain Less Splitter/Coax Loss (dB)	-10.15	-10.77
Antenna Gain with Coax Loss Margin (dB)	-11.35	-12.87
Final Output Power (dBm EIRP)	5.65	3.83

73.4 Panel Antenna with50' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-50200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	13.60	14.01
Final Gain Less Splitter/Coax Loss (dB)	-6.60	-7.01
Antenna Gain with Coax Loss Margin (dB)	-7.80	-9.11
Final Output Power (dBm EIRP)	9.20	7.59

74.4 Panel Antenna with30' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:74-30200-50

Antenna Gain (dBi)	7.00	7.00
Splitter/Coax Loss (dB)	10.76	11.01
Final Gain Less Splitter/Coax Loss (dB)	-3.76	-4.01
Antenna Gain with Coax Loss Margin (dB)	-4.96	-6.11
Final Output Power (dBm EIRP)	12.04	10.59

75.1 Whip Antenna with100' 400 N male Kit numbers:5-100400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	4	6
Final Gain Less Splitter/Coax Loss (dB)	1	-1
Antenna Gain with Coax Loss Margin (dB)	-0.20	-3.10
Final Output Power (dBm EIRP)	16.80	13.60

76.2 Whip Antenna with100' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-100400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	7.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-4.5
Antenna Gain with Coax Loss Margin (dB)	-3.70	-6.60
Final Output Power (dBm EIRP)	13.30	10.10



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77.2 Whip Antenna with 75' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-75400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	6.5	8
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-3
Antenna Gain with Coax Loss Margin (dB)	-2.70	-5.10
Final Output Power (dBm EIRP)	14.30	11.60

78.2 Whip Antenna with 50' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-50400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	5.5	6.5
Final Gain Less Splitter/Coax Loss (dB)	-0.5	-1.5
Antenna Gain with Coax Loss Margin (dB)	-1.70	-3.60
Final Output Power (dBm EIRP)	15.30	13.10

79.2 Whip Antenna with 30' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-30400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	4.7	5.3
Final Gain Less Splitter/Coax Loss (dB)	0.3	-0.3
Antenna Gain with Coax Loss Margin (dB)	-0.90	-2.40
Final Output Power (dBm EIRP)	16.10	14.30

80.3 Whip Antenna with 100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-100400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	9.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-6.5
Antenna Gain with Coax Loss Margin (dB)	-5.70	-8.60
Final Output Power (dBm EIRP)	11.30	8.10

81.3 Whip Antenna with 75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-75400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	8.5	10
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-5
Antenna Gain with Coax Loss Margin (dB)	-4.70	-7.10
Final Output Power (dBm EIRP)	12.30	9.60

82.3 Whip Antenna with 50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-50400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	7.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-3.5
Antenna Gain with Coax Loss Margin (dB)	-3.70	-5.60
Final Output Power (dBm EIRP)	13.30	11.10



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83.3 Whip Antenna with 30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-30400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	6.7	7.3
Final Gain Less Splitter/Coax Loss (dB)	-1.7	-2.3
Antenna Gain with Coax Loss Margin (dB)	-2.90	-4.40
Final Output Power (dBm EIRP)	14.10	12.30

84.4 Whip Antenna with 100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-100400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	10.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-7.5
Antenna Gain with Coax Loss Margin (dB)	-6.70	-9.60
Final Output Power (dBm EIRP)	10.30	7.10

85.4 Whip Antenna with 75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-75400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	9.5	11
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-6
Antenna Gain with Coax Loss Margin (dB)	-5.70	-8.10
Final Output Power (dBm EIRP)	11.30	8.60

86.4 Whip Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-50400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	8.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-4.5
Antenna Gain with Coax Loss Margin (dB)	-4.70	-6.60
Final Output Power (dBm EIRP)	12.30	10.10

87.4 Whip Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-30400-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	7.7	8.3
Final Gain Less Splitter/Coax Loss (dB)	-2.7	-3.3
Antenna Gain with Coax Loss Margin (dB)	-3.90	-5.40
Final Output Power (dBm EIRP)	13.10	11.30

88.1 Whip Antenna with 100' 300 N male Kit numbers:5-100300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	6	9.2
Final Gain Less Splitter/Coax Loss (dB)	-1	-4.2
Antenna Gain with Coax Loss Margin (dB)	-2.20	-6.30
Final Output Power (dBm EIRP)	14.80	10.40



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89.1 Whip Antenna with 75' 300 N male

Kit numbers:5-75300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	4.5	7
Final Gain Less Splitter/Coax Loss (dB)	0.5	-2
Antenna Gain with Coax Loss Margin (dB)	-0.70	-4.10
Final Output Power (dBm EIRP)	16.30	12.60

90.2 Whip Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter

Kit numbers:52-100300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	9.5	12.7
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-7.7
Antenna Gain with Coax Loss Margin (dB)	-5.70	-9.80
Final Output Power (dBm EIRP)	11.30	6.90

91.2 Whip Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter

Kit numbers:52-75300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	8	10.5
Final Gain Less Splitter/Coax Loss (dB)	-3	-5.5
Antenna Gain with Coax Loss Margin (dB)	-4.20	-7.60
Final Output Power (dBm EIRP)	12.80	9.10

92.2 Whip Antenna with 50' 300 N male & a 50 Ohm 2-Way Splitter

Kit numbers:52-50300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	6.5	8.1
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-3.1
Antenna Gain with Coax Loss Margin (dB)	-2.70	-5.20
Final Output Power (dBm EIRP)	14.30	11.50

93.2 Whip Antenna with 30' 300 N male & a 50 Ohm 2-Way Splitter

Kit numbers:72-30300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	5.3	6.3
Final Gain Less Splitter/Coax Loss (dB)	-0.3	-1.3
Antenna Gain with Coax Loss Margin (dB)	-1.50	-3.40
Final Output Power (dBm EIRP)	15.50	13.30

94.3 Whip Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter

Kit numbers:53-100300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	11.5	14.7
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-9.7
Antenna Gain with Coax Loss Margin (dB)	-7.70	-11.80
Final Output Power (dBm EIRP)	9.30	4.90



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95.3 Whip Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-75300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	10	12.5
Final Gain Less Splitter/Coax Loss (dB)	-5	-7.5
Antenna Gain with Coax Loss Margin (dB)	-6.20	-9.60
Final Output Power (dBm EIRP)	10.80	7.10

96.3 Whip Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-50300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	8.5	10.1
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-5.1
Antenna Gain with Coax Loss Margin (dB)	-4.70	-7.20
Final Output Power (dBm EIRP)	12.30	9.50

97.3 Whip Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-30300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	7.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-2.3	-3.3
Antenna Gain with Coax Loss Margin (dB)	-3.50	-5.40
Final Output Power (dBm EIRP)	13.50	11.30

98.4 Whip Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-100300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	12.5	15.7
Final Gain Less Splitter/Coax Loss (dB)	-7.5	-10.7
Antenna Gain with Coax Loss Margin (dB)	-8.70	-12.80
Final Output Power (dBm EIRP)	8.30	3.90

99.4 Whip Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-75300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	11	13.5
Final Gain Less Splitter/Coax Loss (dB)	-6	-8.5
Antenna Gain with Coax Loss Margin (dB)	-7.20	-10.60
Final Output Power (dBm EIRP)	9.80	6.10

100.4 Whip Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-50300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	9.5	11.1
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-6.1
Antenna Gain with Coax Loss Margin (dB)	-5.70	-8.20
Final Output Power (dBm EIRP)	11.30	8.50



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101.4 Whip Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-30300-50

Antenna Gain (dBi)	5	5
Splitter/Coax Loss (dB)	8.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-3.3	-4.3
Antenna Gain with Coax Loss Margin (dB)	-4.50	-6.40
Final Output Power (dBm EIRP)	12.50	10.30

102.1 Whip Antenna with 100' 200 N male Kit numbers:5-100200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	14.20	15.03
Final Gain Less Splitter/Coax Loss (dB)	-9.20	-10.03
Antenna Gain with Coax Loss Margin (dB)	-10.40	-12.13
Final Output Power (dBm EIRP)	6.60	4.57

103.1 Whip Antenna with 75' 200 N male Kit numbers:5-75200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	10.65	11.27
Final Gain Less Splitter/Coax Loss (dB)	-5.65	-6.27
Antenna Gain with Coax Loss Margin (dB)	-6.85	-8.37
Final Output Power (dBm EIRP)	10.15	8.33

104.1 Whip Antenna with 50' 200 N male Kit numbers:5-50200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	7.10	7.51
Final Gain Less Splitter/Coax Loss (dB)	-2.10	-2.51
Antenna Gain with Coax Loss Margin (dB)	-3.30	-4.61
Final Output Power (dBm EIRP)	13.70	12.09

105.1 Whip Antenna with 30' 200 N male Kit numbers:5-30200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	4.26	4.51
Final Gain Less Splitter/Coax Loss (dB)	0.74	0.49
Antenna Gain with Coax Loss Margin (dB)	-0.46	-1.61
Final Output Power (dBm EIRP)	16.54	15.09

106.2 Whip Antenna with 100' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-100200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	17.70	18.53
Final Gain Less Splitter/Coax Loss (dB)	-12.70	-13.53
Antenna Gain with Coax Loss Margin (dB)	-13.90	-15.63
Final Output Power (dBm EIRP)	3.10	1.07



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107.2 Whip Antenna with 75' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-75200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	14.15	14.77
Final Gain Less Splitter/Coax Loss (dB)	-9.15	-9.77
Antenna Gain with Coax Loss Margin (dB)	-10.35	-11.87
Final Output Power (dBm EIRP)	6.65	4.83

108.2 Whip Antenna with 50' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:52-50200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	10.60	11.01
Final Gain Less Splitter/Coax Loss (dB)	-5.60	-6.01
Antenna Gain with Coax Loss Margin (dB)	-6.80	-8.11
Final Output Power (dBm EIRP)	10.20	8.59

109.2 Whip Antenna with 30' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:72-30200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	7.76	8.01
Final Gain Less Splitter/Coax Loss (dB)	-2.76	-3.01
Antenna Gain with Coax Loss Margin (dB)	-3.96	-5.11
Final Output Power (dBm EIRP)	13.04	11.59

110.3 Whip Antenna with 100' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-100200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	19.70	20.53
Final Gain Less Splitter/Coax Loss (dB)	-14.70	-15.53
Antenna Gain with Coax Loss Margin (dB)	-15.90	-17.63
Final Output Power (dBm EIRP)	1.10	-0.93

111.3 Whip Antenna with 75' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-75200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	16.15	16.77
Final Gain Less Splitter/Coax Loss (dB)	-11.15	-11.77
Antenna Gain with Coax Loss Margin (dB)	-12.35	-13.87
Final Output Power (dBm EIRP)	4.65	2.83

112.3 Whip Antenna with 50' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-50200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	12.60	13.01
Final Gain Less Splitter/Coax Loss (dB)	-7.60	-8.01
Antenna Gain with Coax Loss Margin (dB)	-8.80	-10.11
Final Output Power (dBm EIRP)	8.20	6.59



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113.3 Whip Antenna with 30' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:53-30200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	9.76	10.01
Final Gain Less Splitter/Coax Loss (dB)	-4.76	-5.01
Antenna Gain with Coax Loss Margin (dB)	-5.96	-7.11
Final Output Power (dBm EIRP)	11.04	9.59

114.4 Whip Antenna with 100' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-100200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	20.70	21.53
Final Gain Less Splitter/Coax Loss (dB)	-15.70	-16.53
Antenna Gain with Coax Loss Margin (dB)	-16.90	-18.63
Final Output Power (dBm EIRP)	0.10	-1.93

115.4 Whip Antenna with 75' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-75200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	17.15	17.77
Final Gain Less Splitter/Coax Loss (dB)	-12.15	-12.77
Antenna Gain with Coax Loss Margin (dB)	-13.35	-14.87
Final Output Power (dBm EIRP)	3.65	1.83

116.4 Whip Antenna with 50' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-50200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	13.60	14.01
Final Gain Less Splitter/Coax Loss (dB)	-8.60	-9.01
Antenna Gain with Coax Loss Margin (dB)	-9.80	-11.11
Final Output Power (dBm EIRP)	7.20	5.59

117.4 Whip Antenna with 30' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:54-30200-50

Antenna Gain (dBi)	5.00	5.00
Splitter/Coax Loss (dB)	10.76	11.01
Final Gain Less Splitter/Coax Loss (dB)	-5.76	-6.01
Antenna Gain with Coax Loss Margin (dB)	-6.96	-8.11
Final Output Power (dBm EIRP)	10.04	8.59

118.1 Dome Antenna with 100' 400 N male Kit numbers:3-100400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	4	6
Final Gain Less Splitter/Coax Loss (dB)	-1	-3
Antenna Gain with Coax Loss Margin (dB)	-2.20	-5.10
Final Output Power (dBm EIRP)	14.80	11.60



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119.1 Dome Antenna with 75' 400 N male Kit numbers:3-75400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	3	4.5
Final Gain Less Splitter/Coax Loss (dB)	0	-1.5
Antenna Gain with Coax Loss Margin (dB)	-1.20	-3.60
Final Output Power (dBm EIRP)	15.80	13.10

120.1 Dome Antenna with 50' 400 N male Kit numbers:3-50400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	2	3
Final Gain Less Splitter/Coax Loss (dB)	1	0
Antenna Gain with Coax Loss Margin (dB)	-0.20	-2.10
Final Output Power (dBm EIRP)	16.80	14.60

121.2 Dome Antenna with100' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-100400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	7.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-6.5
Antenna Gain with Coax Loss Margin (dB)	-5.70	-8.60
Final Output Power (dBm EIRP)	11.30	8.10

122.2 Dome Antenna with75' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-75400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	6.5	8
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-5
Antenna Gain with Coax Loss Margin (dB)	-4.70	-7.10
Final Output Power (dBm EIRP)	12.30	9.60

123.2 Dome Antenna with50' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-50400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	5.5	6.5
Final Gain Less Splitter/Coax Loss (dB)	-2.5	-3.5
Antenna Gain with Coax Loss Margin (dB)	-3.70	-5.60
Final Output Power (dBm EIRP)	13.30	11.10

124.2 Dome Antenna with30' 400 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-30400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	4.7	5.3
Final Gain Less Splitter/Coax Loss (dB)	-1.7	-2.3
Antenna Gain with Coax Loss Margin (dB)	-2.90	-4.40
Final Output Power (dBm EIRP)	14.10	12.30



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125.3 Dome Antenna with100' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-100400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	9.5	11.5
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-8.5
Antenna Gain with Coax Loss Margin (dB)	-7.70	-10.60
Final Output Power (dBm EIRP)	9.30	6.10

126.3 Dome Antenna with75' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-75400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	8.5	10
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-7
Antenna Gain with Coax Loss Margin (dB)	-6.70	-9.10
Final Output Power (dBm EIRP)	10.30	7.60

127.3 Dome Antenna with50' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-50400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	7.5	8.5
Final Gain Less Splitter/Coax Loss (dB)	-4.5	-5.5
Antenna Gain with Coax Loss Margin (dB)	-5.70	-7.60
Final Output Power (dBm EIRP)	11.30	9.10

128.3 Dome Antenna with30' 400 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-30400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	6.7	7.3
Final Gain Less Splitter/Coax Loss (dB)	-3.7	-4.3
Antenna Gain with Coax Loss Margin (dB)	-4.90	-6.40
Final Output Power (dBm EIRP)	12.10	10.30

129.4 Dome Antenna with100' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-100400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	10.5	12.5
Final Gain Less Splitter/Coax Loss (dB)	-7.5	-9.5
Antenna Gain with Coax Loss Margin (dB)	-8.70	-11.60
Final Output Power (dBm EIRP)	8.30	5.10

130.4 Dome Antenna with75' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-75400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	9.5	11
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-8
Antenna Gain with Coax Loss Margin (dB)	-7.70	-10.10
Final Output Power (dBm EIRP)	9.30	6.60



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131.4 Dome Antenna with 50' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-50400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	8.5	9.5
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-6.5
Antenna Gain with Coax Loss Margin (dB)	-6.70	-8.60
Final Output Power (dBm EIRP)	10.30	8.10

132.4 Dome Antenna with 30' 400 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-30400-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	7.7	8.3
Final Gain Less Splitter/Coax Loss (dB)	-4.7	-5.3
Antenna Gain with Coax Loss Margin (dB)	-5.90	-7.40
Final Output Power (dBm EIRP)	11.10	9.30

133.1 Dome Antenna with 100' 300 N male Kit numbers:3-100300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	6	9.2
Final Gain Less Splitter/Coax Loss (dB)	-3	-6.2
Antenna Gain with Coax Loss Margin (dB)	-4.20	-8.30
Final Output Power (dBm EIRP)	12.80	8.40

134.1 Dome Antenna with 75' 300 N male Kit numbers:3-75300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	4.5	7
Final Gain Less Splitter/Coax Loss (dB)	-1.5	-4
Antenna Gain with Coax Loss Margin (dB)	-2.70	-6.10
Final Output Power (dBm EIRP)	14.30	10.60

135.1 Dome Antenna with 50' 300 N male Kit numbers:3-50300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	3	4.6
Final Gain Less Splitter/Coax Loss (dB)	0	-1.6
Antenna Gain with Coax Loss Margin (dB)	-1.20	-3.70
Final Output Power (dBm EIRP)	15.80	13.00

136.1 Dome Antenna with 30' 300 N male Kit numbers:3-30300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	1.8	2.8
Final Gain Less Splitter/Coax Loss (dB)	1.2	0.2
Antenna Gain with Coax Loss Margin (dB)	0.00	-1.90
Final Output Power (dBm EIRP)	17.00	14.80



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137.2 Dome Antenna with 100' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-100300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	9.5	12.7
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-9.7
Antenna Gain with Coax Loss Margin (dB)	-7.70	-11.80
Final Output Power (dBm EIRP)	9.30	4.90

138.2 Dome Antenna with 75' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-75300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	8	10.5
Final Gain Less Splitter/Coax Loss (dB)	-5	-7.5
Antenna Gain with Coax Loss Margin (dB)	-6.20	-9.60
Final Output Power (dBm EIRP)	10.80	7.10

139.2 Dome Antenna with 50' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-50300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	6.5	8.1
Final Gain Less Splitter/Coax Loss (dB)	-3.5	-5.1
Antenna Gain with Coax Loss Margin (dB)	-4.70	-7.20
Final Output Power (dBm EIRP)	12.30	9.50

140.2 Dome Antenna with 30' 300 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-30300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	5.3	6.3
Final Gain Less Splitter/Coax Loss (dB)	-2.3	-3.3
Antenna Gain with Coax Loss Margin (dB)	-3.50	-5.40
Final Output Power (dBm EIRP)	13.50	11.30

141.3 Dome Antenna with 100' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-100300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	11.5	14.7
Final Gain Less Splitter/Coax Loss (dB)	-8.5	-11.7
Antenna Gain with Coax Loss Margin (dB)	-9.70	-13.80
Final Output Power (dBm EIRP)	7.30	2.90

142.3 Dome Antenna with 75' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-75300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	10	12.5
Final Gain Less Splitter/Coax Loss (dB)	-7	-9.5
Antenna Gain with Coax Loss Margin (dB)	-8.20	-11.60
Final Output Power (dBm EIRP)	8.80	5.10



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143.3 Dome Antenna with 50' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-50300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	8.5	10.1
Final Gain Less Splitter/Coax Loss (dB)	-5.5	-7.1
Antenna Gain with Coax Loss Margin (dB)	-6.70	-9.20
Final Output Power (dBm EIRP)	10.30	7.50

144.3 Dome Antenna with 30' 300 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-30300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	7.3	8.3
Final Gain Less Splitter/Coax Loss (dB)	-4.3	-5.3
Antenna Gain with Coax Loss Margin (dB)	-5.50	-7.40
Final Output Power (dBm EIRP)	11.50	9.30

145.4 Dome Antenna with 100' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-100300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	12.5	15.7
Final Gain Less Splitter/Coax Loss (dB)	-9.5	-12.7
Antenna Gain with Coax Loss Margin (dB)	-10.70	-14.80
Final Output Power (dBm EIRP)	6.30	1.90

146.4 Dome Antenna with 75' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-75300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	11	13.5
Final Gain Less Splitter/Coax Loss (dB)	-8	-10.5
Antenna Gain with Coax Loss Margin (dB)	-9.20	-12.60
Final Output Power (dBm EIRP)	7.80	4.10

147.4 Dome Antenna with 50' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-50300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	9.5	11.1
Final Gain Less Splitter/Coax Loss (dB)	-6.5	-8.1
Antenna Gain with Coax Loss Margin (dB)	-7.70	-10.20
Final Output Power (dBm EIRP)	9.30	6.50

148.4 Dome Antenna with 30' 300 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-30300-50

Antenna Gain (dBi)	3	3
Splitter/Coax Loss (dB)	8.3	9.3
Final Gain Less Splitter/Coax Loss (dB)	-5.3	-6.3
Antenna Gain with Coax Loss Margin (dB)	-6.50	-8.40
Final Output Power (dBm EIRP)	10.50	8.30



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149.1 Dome Antenna with 100' 200 N male Kit numbers:3-100200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	14.20	15.03
Final Gain Less Splitter/Coax Loss (dB)	-11.20	-12.03
Antenna Gain with Coax Loss Margin (dB)	-12.40	-14.13
Final Output Power (dBm EIRP)	4.60	2.57

150.1 Dome Antenna with 75' 200 N male Kit numbers:3-75200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	10.65	11.27
Final Gain Less Splitter/Coax Loss (dB)	-7.65	-8.27
Antenna Gain with Coax Loss Margin (dB)	-8.85	-10.37
Final Output Power (dBm EIRP)	8.15	6.33

151.1 Dome Antenna with 50' 200 N male Kit numbers:3-50200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	7.10	7.51
Final Gain Less Splitter/Coax Loss (dB)	-4.10	-4.51
Antenna Gain with Coax Loss Margin (dB)	-5.30	-6.61
Final Output Power (dBm EIRP)	11.70	10.09

152.1 Dome Antenna with 30' 200 N male Kit numbers:3-30200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	4.26	4.51
Final Gain Less Splitter/Coax Loss (dB)	-1.26	-1.51
Antenna Gain with Coax Loss Margin (dB)	-2.46	-3.61
Final Output Power (dBm EIRP)	14.54	13.09

153.2 Dome Antenna with 100' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-100200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	17.70	18.53
Final Gain Less Splitter/Coax Loss (dB)	-14.70	-15.53
Antenna Gain with Coax Loss Margin (dB)	-15.90	-17.63
Final Output Power (dBm EIRP)	1.10	-0.93

154.2 Dome Antenna with 75' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-75200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	14.15	14.77
Final Gain Less Splitter/Coax Loss (dB)	-11.15	-11.77
Antenna Gain with Coax Loss Margin (dB)	-12.35	-13.87
Final Output Power (dBm EIRP)	4.65	2.83



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155.2 Dome Antenna with50' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-50200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	10.60	11.01
Final Gain Less Splitter/Coax Loss (dB)	-7.60	-8.01
Antenna Gain with Coax Loss Margin (dB)	-8.80	-10.11
Final Output Power (dBm EIRP)	8.20	6.59

156.2 Dome Antenna with30' 200 N male & a 50 Ohm 2-Way Splitter Kit numbers:32-30200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	7.76	8.01
Final Gain Less Splitter/Coax Loss (dB)	-4.76	-5.01
Antenna Gain with Coax Loss Margin (dB)	-5.96	-7.11
Final Output Power (dBm EIRP)	11.04	9.59

157.3 Dome Antenna with100' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-100200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	19.70	20.53
Final Gain Less Splitter/Coax Loss (dB)	-16.70	-17.53
Antenna Gain with Coax Loss Margin (dB)	-17.90	-19.63
Final Output Power (dBm EIRP)	-0.90	-2.93

158.3 Dome Antenna with75' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-75200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	16.15	16.77
Final Gain Less Splitter/Coax Loss (dB)	-13.15	-13.77
Antenna Gain with Coax Loss Margin (dB)	-14.35	-15.87
Final Output Power (dBm EIRP)	2.65	0.83

159.3 Dome Antenna with50' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-50200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	12.60	13.01
Final Gain Less Splitter/Coax Loss (dB)	-9.60	-10.01
Antenna Gain with Coax Loss Margin (dB)	-10.80	-12.11
Final Output Power (dBm EIRP)	6.20	4.59

160.3 Dome Antenna with30' 200 N male & a 50 Ohm 3-Way Splitter Kit numbers:33-30200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	9.76	10.01
Final Gain Less Splitter/Coax Loss (dB)	-6.76	-7.01
Antenna Gain with Coax Loss Margin (dB)	-7.96	-9.11
Final Output Power (dBm EIRP)	9.04	7.59



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161.4 Dome Antenna with 100' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-100200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	20.70	21.53
Final Gain Less Splitter/Coax Loss (dB)	-17.70	-18.53
Antenna Gain with Coax Loss Margin (dB)	-18.90	-20.63
Final Output Power (dBm EIRP)	-1.90	-3.93

162.4 Dome Antenna with 75' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-75200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	17.15	17.77
Final Gain Less Splitter/Coax Loss (dB)	-14.15	-14.77
Antenna Gain with Coax Loss Margin (dB)	-15.35	-16.87
Final Output Power (dBm EIRP)	1.65	-0.17

163.4 Dome Antenna with 50' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-50200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	13.60	14.01
Final Gain Less Splitter/Coax Loss (dB)	-10.60	-11.01
Antenna Gain with Coax Loss Margin (dB)	-11.80	-13.11
Final Output Power (dBm EIRP)	5.20	3.59

164.4 Dome Antenna with 30' 200 N male & a 50 Ohm 4-Way Splitter Kit numbers:34-30200-50

Antenna Gain (dBi)	3.00	3.00
Splitter/Coax Loss (dB)	10.76	11.01
Final Gain Less Splitter/Coax Loss (dB)	-7.76	-8.01
Antenna Gain with Coax Loss Margin (dB)	-8.96	-10.11
Final Output Power (dBm EIRP)	8.04	6.59