PLW40\_RADIOSPEC

MANUFACT NEC // \* manufacturer

MODEL iPASO IHG 23G 33MB // \* radio model

COMMENT\_1

COMMENT\_2

COMMENT\_3

COMMENT\_4

COMMENT\_5

COMMENT\_6

EMDESIG 7M00D7W // emission designator

RADIO\_ID iPASO\_23G\_33M // radio id

MODULATION 32QAM // \* modulation QPSK, 16 QAM, 32 QAM, 128 QAM

CAPACITY 33 Mbps // \* capacity 4E1, 8E1, 16E1, 48E1, STM-1, 1E3, 2E3

DATA\_RATE 26.8110625 // data rate Mb/s

STABILITY\_PRC 0.0006 // frequency stability percent or

STABILITY\_PPM 6 // frequency stability parts per million

SPECTRMBW\_MHZ 6.2 // \* 3 dB spectrum bandwidth (MHz) used for default curves

CHANNELBW\_MHZ 7 // channel bandwidth (MHz)

MAXRXSIG\_10-3 -21 // maximum receive signal for 10-3 BER (dBm)

MAXRXSIG\_10-6 -20 // maximum receive signal for 10-6 BER (dBm)

TtoI\_COCHAN\_LIKE 26 // \* threshold to interference ratio like modulation (dB)

TtoI\_COCHAN\_CW 26 // threshold to interference ratio CW modulation (dB)

TXPOWER\_DBM 19 // \* transmit power (dBm)

FREQ\_LO\_MHZ 21200 // \* lower frequency limit (MHz)

FREQ\_HI\_MHZ 23600 // \* upper frequency limit (MHz)

ATPC\_RANGE 25 // automatic TX power control range (dB)

NUM\_ATPCSTEPS 1 // number of steps in the power control range

DIGRADIO\_TYPE // PDH, SDH or NB\_DIGITAL narrow band digital

SD\_OPERATION // BBS or IFC baseband switch or IF combiner

COCHANNEL\_OPERATION // YES or NO

USE\_SIGNATURE // YES or NO use equipment signature

XPIF 19 // Cochannel XPD improvement factor

XPD\_XPI 35 // XPD of the XPIC device

IF\_COMB\_GAIN // IF combiner gain

LCOMB\_FACTOR // IF combiner selective fading improvement factor

BITS\_BLOCK 0 // bits per block (\* SDH only)

BLOCKS\_SEC 0 // blocks per second (\* SDH only)

ALPHA1 0 // (\* SDH only)

ALPHA2 0 // (\* SDH only)

ALPHA3 0 // (\* SDH only)

SIGNATURE\_DELAY\_10-3 6.3 // signature delay (ns) at BER 10-3

SIGNATURE\_WIDTH\_10-3 6 // signature width (MHz) at BER 10-3

SIGNATURE\_MINPH\_10-3 38 // signature depth - minimum phase (dB) at BER 10-3

SIGNATURE\_NONMINPH\_10-3 38 // signature depth - non minmimum phase (dB) at BER 10-3

SIGNATURE\_DELAY\_10-6 6.3 // signature delay (ns) at BER 10-6

SIGNATURE\_WIDTH\_10-6 32 // signature width (MHz) at BER 10-6

SIGNATURE\_MINPH\_10-6 32 // signature depth - minimum phase (dB) at BER 10-6

SIGNATURE\_NONMINPH\_10-6 0 // signature depth - non minmimum phase (dB) at BER 10-6

SIGNATURE\_DELAY\_RBER 6.3 // signature delay (ns) at BER RBER

SIGNATURE\_WIDTH\_RBER 6 // signature width (MHz) at BER RBER

SIGNATURE\_MINPH\_RBER 30 // signature depth - minimum phase (dB) at BER RBER

SIGNATURE\_NONMINPH\_RBER 30 // signature depth - non minmimum phase (dB) at BER RBER

SIGNATURE\_DELAY\_SES (10-4) 6.3 // signature delay (ns) at BER SES

SIGNATURE\_WIDTH\_SES (10-4) 6 // signature width (MHz) at BER SES

SIGNATURE\_MINPH\_SES (10-4) 36 // signature depth - minimum phase (dB) at BER SES

SIGNATURE\_NONMINPH\_SES (10-4) 36 // signature depth - non minmimum phase (dB) at BER SES

DISPFM\_10-3 80.5 // dispersive fade margin at 10-3 BER (dB)

DISPFM\_10-6 80.3 // dispersive fade margin at 10-6 BER (dB)

DISPFM\_SES // dispersive fade margin at SES BER (dB)

DISPFM\_RBER // dispersive fade margin at residual BER (dB)

RXTHRESH\_10-3 -84.5 // RX threshold at 10-3 BER (dBm) (\* SDH only )

RXTHRESH\_10-6 -83 // \* RX threshold at 10-6 BER (dBm)

RESIDUAL\_BER 1.00E-12 // residual bit error rate - scientific notation 1E-10

RXTHRESH\_RBER -82 // RX threshold at RBER (dBm)

SES\_BER 1.00E-04 // SES bit error rate - scientific notation 4.6E-4 (optional)

RXTHRESH\_SES\_BER -83.75 // SES bit error rate - scientific notation 4.6E-4 (optional)

// start of curves

TtoI\_

TX\_EMISSION 121

0 0

1 -0.2

2 -0.8

3 -4.1

4 -51.3

5 -52.9

6 -54.8

7 -57.2

8 -59.9

9 -62.8

10 -65.5

11 -67.8

12 -69

13 -69.4

14 -69.8

15 -70.2

16 -70.6

17 -71

18 -71.4

19 -71.8

20 -72.2

21 -72.6

22 -73

23 -73.4

24 -73.8

25 -74.2

26 -74.6

27 -75

28 -75.4

29 -75.8

30 -76.2

31 -76.6

32 -77

33 -77.4

34 -77.8

35 -78.2

36 -78.6

37 -79

38 -79.4

39 -79.8

40 -80.2

41 -80.6

42 -81

43 -81.4

44 -81.8

45 -82.2

46 -82.6

47 -83

48 -83.4

49 -83.8

50 -84.2

51 -84.6

52 -85

53 -85.4

54 -85.8

55 -86.2

56 -86.6

57 -87

58 -87.4

59 -87.8

60 -88.2

61 -88.6

62 -89

63 -89.4

64 -89.8

65 -90.2

66 -90.6

67 -91

68 -91.4

69 -91.8

70 -92.2

71 -92.6

72 -93

73 -93.4

74 -93.8

75 -94.2

76 -94.6

77 -95

78 -95.4

79 -95.8

80 -96.2

81 -96.6

82 -97

83 -97.4

84 -97.8

85 -98.2

86 -98.6

87 -99

88 -99.4

89 -99.8

90 -100.2

91 -100.6

92 -101

93 -101.4

94 -101.8

95 -102.2

96 -102.6

97 -103

98 -103.4

99 -103.8

100 -104.2

101 -104.6

102 -105

103 -105.4

104 -105.8

105 -106.2

106 -106.6

107 -107

108 -107.4

109 -107.8

110 -108.2

111 -108.6

112 -109

113 -109.4

114 -109.8

115 -110.2

116 -110.6

117 -111

118 -111.4

119 -111.8

120 -112.2

RX\_SELECTIVITY 51

0 0

1 0.2

2 0.8

3 -0.3

4 -40.3

5 -43.7

6 -52.6

7 -61.8

8 -69.9

9 -41.4

10 -42.5

11 -49

12 -55

13 -60

14 -65

15 -66.6

16 -66.6

17 -66.6

18 -66.6

19 -66.6

20 -66.6

21 -66.6

22 -66.6

23 -66.6

24 -66.6

25 -66.6

26 -66.6

27 -66.6

28 -66.6

29 -66.6

30 -66.6

31 -66.6

32 -66.6

33 -66.6

34 -66.6

35 -66.6

36 -66.6

37 -66.6

38 -66.6

39 -66.6

40 -66.6

41 -66.6

42 -66.6

43 -66.6

44 -66.6

45 -66.6

46 -66.6

47 -66.6

48 -66.6

49 -66.6

50 -66.6

IRF\_7M-32QAM 32

0 0

0.5 -0.155

1 -0.508

2 -1.399

3 -2.606

4 -4.375

5 -7.334

5.5 -10.055

6 -14.792

6.5 -23.011

7 -38.239

7.5 -48.396

8 -49.946

8.5 -50.729

9 -51.074

9.5 -51.271

10 -51.466

11 -51.986

12 -53.365

13 -56.918

14 -58.631

15 -59.058

16 -59.131

17 -59.131

18 -59.131

19 -59.131

20 -59.131

21 -59.131

22 -59.131

23 -59.131

24 -59.131

25 -59.131