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**SENSITIVITY:** (AM/SSB/CW 10 dB SINAD)  
(FM 12 dB SINAD)

MODE	0.15-0.5 MHz	0.5-1.5 MHz	1.5-30 MHz
AM,AMS(30% MOD)	-103 dBm	-106 dBm	-108 dBm
AM,AMS(80% MOD)	-111 dBm	-115 dBm	-116 dBm
LSB,USB,ISB,DSB	-115 dBm	-118 dBm	-119 dBm
CW	-122 dBm	-125 dBm	-130 dBm
FM	-110 dBm	-113 dBm	-117 dBm

**NOTE:** BELOW 150 KHz THE SENSITIVITY GRADUALLY DROPS,TYPICAL FIGURES(CW) ARE

10 KHz : -90 dBm  
25 KHz : -98 dBm  
50 KHz : -102 dBm  
100 KHz : -113 dBm

**METHOD OF DESIGNATION:** QUOTE SHORT TITLE, FREQ RANGE,12 DIGIT PART NUMBER,DRAWING SIZE

MONITOR Rx	9 KHz-30 MHz	4556 771 201 90	A3
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LIST OF DELIVERABLES - WR G313e

- WR-G313e RECEIVER MODULE
- APPLICATION SOFTWARE CD
- COMPREHENSIVE USER'S MANUAL
- AC ADAPTER MODEL NO: DT57-12-800R3
- USB CABLE MODEL NO: 28AWG-E172829

**SPECIFICATIONS:**

- RECEIVER TYPE : DSP BASED SDR WITH DDS-BASED DUAL CONVERSION SUPERHETERODYNE FRONT END
- FREQUENCY RANGE : 9KHz-30MHz
- TUNING RESOLUTION : 1 Hz
- MODE : AM,AMS,LSB,USB,DSB,ISB,CW,FM
- IMAGE REJECTION : 1.8-7.3 MHz : 80 dB  
7.3-30.0 MHz : 70dB
- SPURIOUS -FREE DYNAMIC RANGE : 95 dB
- MINIMUM DETECTION SIGNAL : -137 dBm
- PHASE NOISE : -148 dBC/Hz@100KHz
- INTERNAL SPURIOUS : LESS THAN EQUIVALENT ANTENNA INPUT OF -115 dBm
- RSSI ACCURACY : 2 dB
- RSSI SENSITIVITY : -137 dBm
- BANDWIDTH : 1-15000Hz(ADJUSTABLE IN 1 Hz STEPS)
- SCANNING SPEED : 400 STEPS/S (AT 1KHz STEPS)
- INTERMEDIATE FREQUENCIES : IF1 : 45 MHz  
IF2 : 16 KHz (VARIABLE 12-22 KHz)
- TUNNING ACCURACY : 1 PPM (25°C ±2°C)
- FREQUENCY STABILITY : 0.5 PPM(0 TO 60°C)
- ANTENNA INPUT : 50 OHM (SMA CONNECTOR)
- OUTPUT : 600 OHM LINE AUDIO
- FORM FACTOR : 2/3 LENGTH PCI CARD
- INTERFACE : PCI 2.2 COMPLIANT
- DIMENSIONS : LENGTH : 195 mm (7.68")(EXCLUDING MOUNTING BRACKET)  
HEIGHT : 99 MM (3.90")(EXCLUDING EDGE CONNECTOR)  
THICKNESS : 19 MM (0.75")(INCL.COMPONENTS ON EITHER SIDE)
- WEIGHT : 330 g
- OPERATING TEMP : 0 TO 60°C

PART NO. 4556 771 201 90

ISS NO.	CN NO.	DATE	CHANGE	DO	ENGR	APVD	NUMBER	ITEM	QTY
MATERIAL				FINISH		PROJECTION	DIMNS IN MM	NEXT ASSEMBLY	HELD IN
									HYD
DRAWN	CHECKED	ENGINEER	SCALE	TITLE					
RK MURTHY		THIMMAPPA	NTS	MONITORING RECEIVER (9 KHz-30 MHz)					
DT13.06.2009	DT	DT13.07.2009	DOC CODE	NUMBER	SHEET	ISSUE	SIZE		
			PP	4556 771 2	000	00	A3		
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