

This document is the Property of Bharat Electronics Ltd. Bangalore, India. Reproduction, Utilisation or Disclosure to third parties, in any form what so ever, is not allowed without written consent of the proprietors.



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
------------	--------------	-----------------	----

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)
- TUNING 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	
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
							LIC		NO. OF SHEETS	01