

MODEL: AR300

GENERAL TECHNICAL DESCRIPTION

The equipment under test (EUT) is audio wireless system for it corresponding wireless microphones. Its operating from 643.025 MHz to 647.000 MHz. It's powered by an AC/DC Adaptor..

The antenna used is **External Antenna**.

The circuit description listed as follows;

Amplifiers and Power

Category	Part Name	Part Number	Description
IC	U5	7805	Power Supply
IC	U2, U3	MC33202	Operational amplifiers provide rail-to-rail operation on both the input and output
IC	U1	NE5532P	Dual low noise operational amplifiers

Main Board & LCD Display

Category	Part Name	Part Number	Description
IC	U9	ATMEGA16L	8-bits Microcontroller
IC	U7	74HC05	HEX Inverters
IC	U6	74HC595	8-bits shift register with output latches 3 state
Crystal	Y1	8MHz	for U6

RF MODULE

Category	Part Name	Part Number	Description
IC	U13	M34283	4-bit CMOS Microcontroller
IC	U5	MB15E03SL	PLL Frequency Synthesizer
Crystal	X2	4MHz	for U5
IC	U3, U4	UPC2757TB	1 st frequency down-converter
IC	U7, U8	LA1225M	FM IF Detector
IC	U6	NJM2901V	Single-supply QUAD comparator
IC	U9, U11	NJM2115V	Dual operational amplifiers
IC	U10	TC4053	Single 8-channel multiplexer
IC	U12	TK10691	Compressor / Expander