

## **MODEL: AL300**

### **GENERAL TECHNICAL DESCRIPTION**

The equipment under test (EUT) is audio guitar wireless microphone for it corresponding wireless receiver. Its operating from 643.025 MHz to 647.000 MHz, with 0.25MHz channel spacing. It's powered by a 1.5VDC "AA" size battery.

The antenna used is **Integral, External Antenna**.

The circuit description listed as follows;

#### **Main Board**

Category	Part Name	Part Number	Description
IC	U7	TMP86C829BU	8-bits Mircocontroller
IC	U8	XC61CN27	Low Voltage Dectector
IC	U10	S-93L46A0	CMOS Serial E <sup>2</sup> PROM
Crystal	OSC1	8MHz	for U7
IC	U1	NJM2737V	Low Noise, Low Supply Dual Operational Amplifier
IC	U2	TK10690M	Compressor
IC	U9	TK62002F	Dual CMOS Operational Amplifier

#### **Power Supply**

Category	Part Name	Part Number	Description
IC	U3	R1210N332C	DC-DC Converter
IC	U5	TK11230	Regulator

#### **RF MODULE**

Category	Part Name	Part Number	Description
IC	U6	MB15003SL	PLL Frequency Synthesizer
Crystal	X1	16MHz	for U6
Transistor	Q8	UPA854TD	NPN Silicon RF Transistor
Transistor	Q1, Q6, Q18	EC3H07B	Low Noise Amplifier