



Definition of "calibrated MR-SU9 receiver"

calibration: RF-INPUT: 48KHZ deviation at 1KHZ audio-frequency + Tone key
calibrate output voltage with AF-out to $0\text{dBV} \pm 0.05\text{dB}$

PCB Test Specifications

1. DC-Voltage

LED: green Light (D1)

Battery-voltage: $2.4\text{V} \pm 0.1\text{V}$

DC-DC converter-voltage (internal supply): $3.7\text{V} \pm 0.1\text{V}$

current-consumption: $60\text{mA} \pm 10\text{mA}$

2. RF frequency adjustment

The frequency have to be adjusted that it lies in-between $\pm 5\text{KHZ}$ of the nominal transmitter (C91). frequency nominal transmitter see channel select table

3. RF Filter adjustment (level adjustment)

The filters have to be adjusted that the output-power builds an maximum. Then it should lie in-between $9.5\text{dBm} \pm 1.5\text{dB}$ at 50ohm (C25, C36)

4. Audio level adjustment

AF-generator: frequency: 1KHz level: -40dBV

PUSH SW (SW2) ON LED (D5): Lighten

VR-10KA have to be adjusted that the output-level builds an maximum. adjust VR20k (R26) the output-level at "calibrated MR-SU9 receiver": -18.5dBV and wave no distortion.

Low-batt-test

battery-voltage: $1.7\text{v} + 0/-0.1\text{v}$: LED have to red light (D1)