Operation description of L73RM-Y807

[Schema]

Refer to Fig.1 for the block diagram of the transmitter.

1. **Logic section**

Logic section is composed of IC1(microcomputer unit) and the other peripherals / miscellaneous circuits. Fig.2 shows the circuit diagram

Logic section works : -
Scanning the key-board matrix(including a control level, mode selectors), and encoding into some appropriate serial code according to the button pressed, and driving the RF section, infrared LED, etc

2. RF section

RF section generates the radio frequency signal, including a serial code composed at the logic section, and transmits through the internal monopole antenna.

RF section is composed of :: -
frequency modulator (variable reactance, VC1), and SAW (Surface Acoustic Wave) resonator controlled oscillator (SAW1, Q2), and buffer amplifier(Q3), and band-pass and low-pass filters to suppress the spurious emission (L2 through L6), and voltage regulator (LED1) and transmission control switch(Q1).

Antenna :
Refer to Photo 1,2
a) Two internal monopole antennas. Any other antenna can not be used.
b) Nominal impedance is 50ohms unbalanced.
c) No tuning parts.

Grounding :
This equipment is not connected to ground directly because it is a handheld equipment.

Transmitting period :
It should quit transmission as soon as all the buttons are released.

3. Specification

Refer to the attached "Specifications" sheet.

SANWA ELECTRONIC INSTRUMENT CO.,LTD.

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