SPECIFICATIONS FCC CONFIDENTIAL FCC ID:L73RM-Y808

Notes

Unless otherwise specified.

Power supply voltage is DC3.0V, regulated.

1. Equipment

Remote control transmitter

2. Intended use

For remote control of the Audio/Visual equipment's (e.g. SAT TUNER, TV, VCR, MDP).

3.Trade name

SONY

4. Model No.

RM-Y808

5. FCC Identifier

L73RM-Y808

6. Carrier frequency f0

315.625 to 316.425MHz

7. Type of emission

F1D (FSK)

8. Frequency deviation

 $f0 \pm 50$ kHz or less.

9. Occupied band width

 $f0 \pm 100$ kHz or less.

10. Radiated RF power (field strength intensity)

 $75dB\mu V/m@3m$ or less.

11. Spurious radiation.

Complies with Part 15 of the FCC Rules.

12. Antenna

Internal monopole antenna, nominal impedance is 50ohms unbalanced.

13. Power supply

2pcs of size "AA" alkaline manganese dry cells, nominal voltage is 3.0V.

14. Operative voltage range of power supply

3.2V to 2.4V

15. Temperature range(under operation)

0 °C to 50 °C

16. Humidity range(under operation)

85%RH or less.

17. Transmitting period

As long as button pressed.

(It should quit transmission as soon as all the buttons are released.)

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18. Power consumption

- -1. During transmission
 - 100mA or less.
- -2. Stand-by status 10µA or less.

19. 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 peripheral/miscellaneous circuits. [fig 2] shows the circuit diagram.

logic section works:

- *scanning the key-board matrix(including a control lever , mode selectors), and
- *encoding into some appropriate serial code according to the button pressed, and
- *driving the RF section, infrared LED, visible LED's, 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)

20. Serial code format

Refer to [fig 4] for example of baseband format of transmitted serial code.

Due to the button pressed, actual serial code format could be slightly different from this shown example.

 $Transmitted\ radio\ frequency (RF)\ carrier\ shifts\ higher\ upon\ H\ level\ of\ baseband\ code\ ,\ and\ shifts\ lower\ upon\ L\ level\ of\ it.$

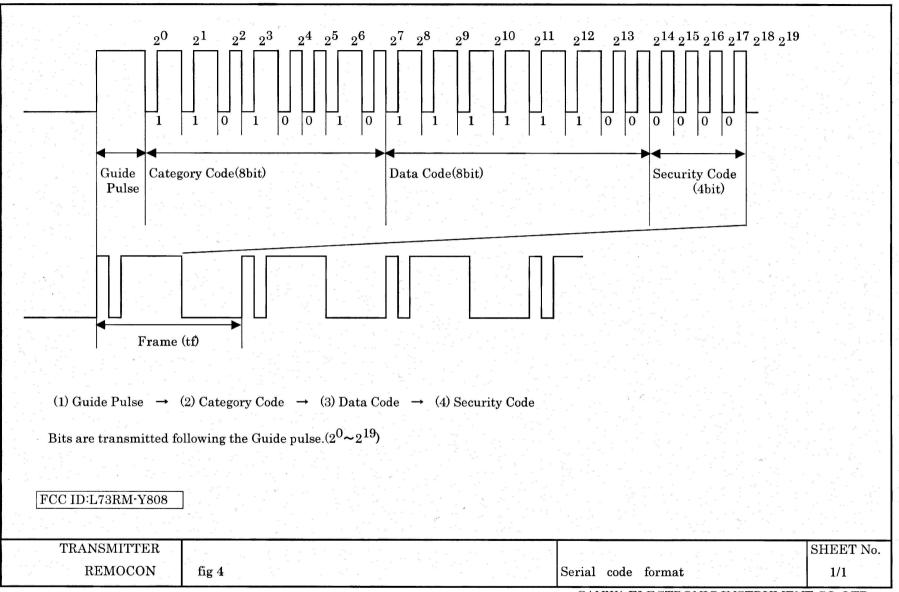
21. Operation principle of RF Remote controller.

For the SAT function, it should transmit the RF control signals simultaneously with the Infrared (IR) signal transmission.

The purpose of RF remote control function is to control from the distance that the IR signal can't reach, and /or to control through the objects.(e.g. walls, partitions etc.)

22. Applied rules and regulations

The United States, FCC part 15.



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