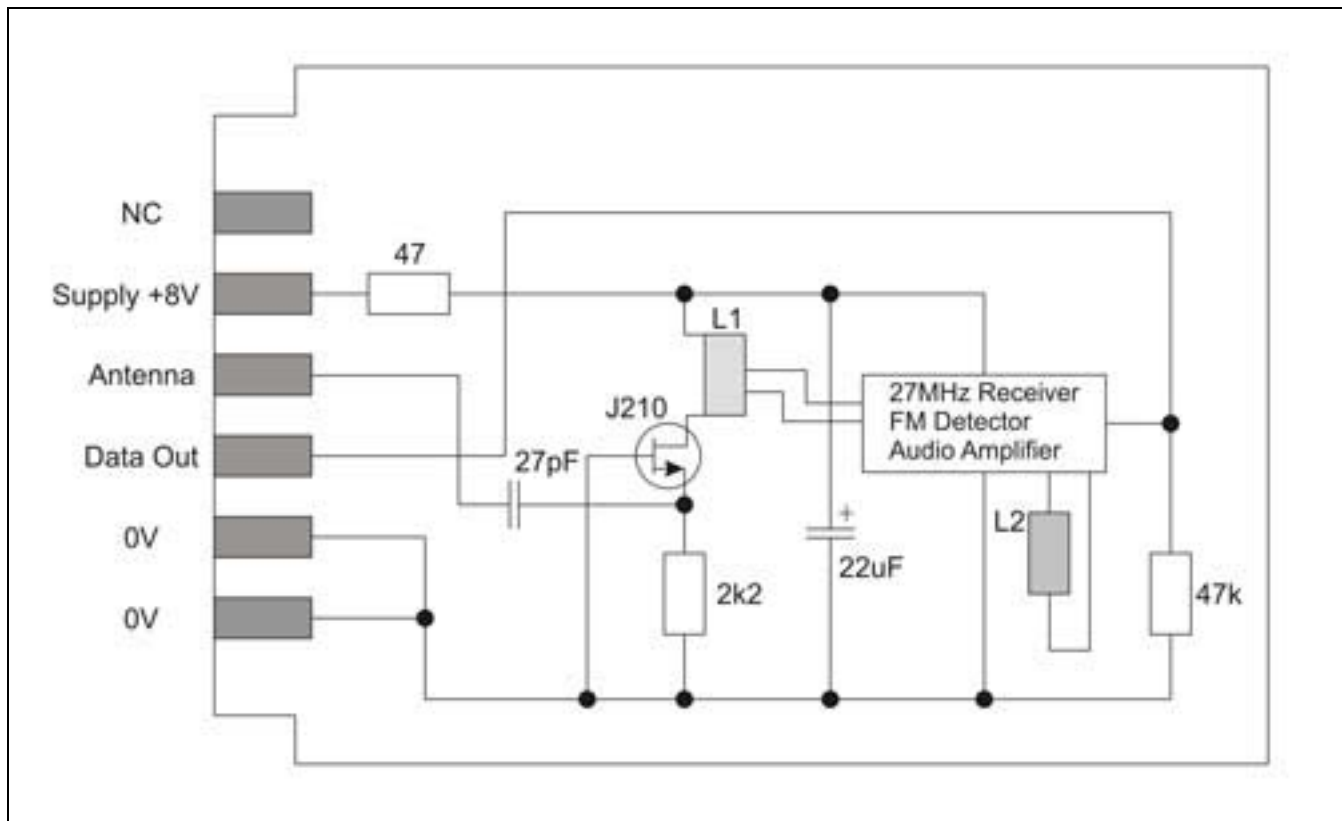


# FMR-100

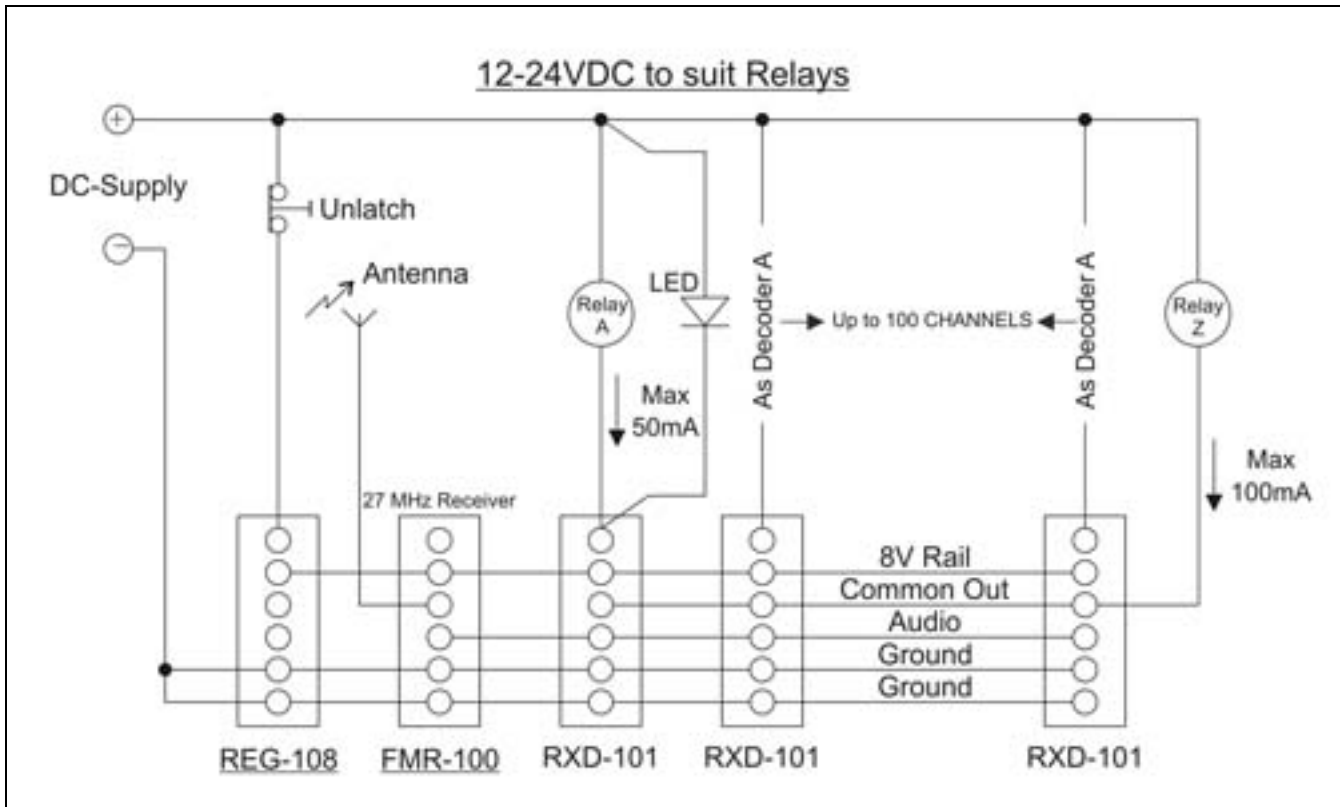
27MHz Receiver for Multi-channel System

## Features

- Supply 8 VDC, minimum 5 volt, maximum 9 volt, absolute maximum 12 VDC.
- Supply Current 8mA at 8VDC (Approximately).
- Output impedance 47Kohms, will drive up to 100 RXD-101 decoders.
- Frequency 27.145 MHz, Sensitivity 1 m V
- Antenna, use 1 to 2 metres straight wire. Install antenna away from metal parts.
- Keep coils L1 and L2 away from magnetic components such a speakers, motors and transformers.
- Do not change tuning of L1 and L2.
- Above connections are drawn as “View to component side”.
- For panel mounting the FMR-100 use a 6-way , 156” edge connector : Elsema part Number : [6W-edge](#).
- Printed Circuit Board dimensions 63 X 44 mm.



**Assembly Circuit For Multi-Channel Receiver**



**Notes:**

- Select LED-resistor on RXD-101 card to suit current through LED.
- If relay is used in place of LED, bridge out LED resistor.
- LED or relay will only be ON if corresponding decoder is ON.
- Relay “Z” will be energized if any decoder is ON
- When designing power supply, provide 7 mA for FMR-100 and 10mA for each decoder.
- Absolute maximum voltage on 8.volt rail is 11 VDC, higher voltage will damage decoder.
- Latching add non-latching decoders may be used in one system.
- FMR-100 and RXD-101 operates normally on 8VDC (Minimum 7 VDC and maximum 10 VDC)
- If latching decoders are used provide N/C reset button in positive supply line.
- Absolute maximum input voltage to regulator REG-108 is 40 VDC
- Antenna, use 1 to 2 metres straight wire. Install antenna away from metal parts.
- For panel mounting the FMR-100 use a 6-way , 156” edge connector : Elsema part Number : [6W-edge](#).

**Manufactured by**

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