

TMR-RF930

CIRCUIT DESCRIPTION

OUTLINE:

TMR-RF930 is a RF Stereo Transmitter of Sony Wireless Stereo Headphone System, MDR-RF930K.
This transmitter is operated within 913.0 – 915.0MHz.

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- The audio Input signals (L, R) are severally amplified at ALC AMP and pass through $75\mu s$ Pre-emphasis in IC401.
- L, R signals from IC401 go to MATRIX circuit including IC403, Operational AMP to generate L+R signal and L-R signal.
- At OSC/MOD circuit of Q407 and Q408, Sub-Carrier (50kHz) is frequency-modulated by L-R signal.
- L+R signal and Sub-Carrier which is frequency-modulated by L-R signal are mixed, and inputted to Q101, OSC/MOD circuit as the modulation signal.
- The oscillator frequency is selected by input DC voltage. The input DC voltage is selected by channel selector.
- This frequency-modulated signal is radiated at ANT after passing through Q102 and Q103.