

TO: 2P 2P 2P 2P 2P

FM: 主 3 5 7 12/8

MP-1688 Block Diagram Description

The unit modulates signal of the stereo audio signal and transmit it, they can received by FM Radio. The audio signal is not only the line output of the CD, MP3, MD but also the earphone output of Mobile. They can be chosen by a switch. The audio signal of Left-Right tracks pass to the Pre-emphasis and Limited first, then to the MPX, come into being a composite stereo signal.

Composite stereo signal is sent to the VCO to modulate the carrier wave. The signal modulation is transmitted by antenna after it is amplified and filtered.

The frequency of carrier wave controlled by the PLL. the signal output of VCO divide apart to the Program Counter in order to divide the frequency. The rate of divider controlled by the data outside. The signal that passed the divider will be sent to the Phase detector to detect.

The missing signal pass to the LPF, then mix up with the composite stereo signal, send to the VCO to control the frequency itself. The OSC supply the needed reference and pilot signal to the phase detector and the MPX. They can be got by the 7.6MHZ signal of divider.