DIRECT RF MODULATION TRANSMITTER

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PROBLEM TO BE SOLVED: To provide a direct RF modulation transmitter capable of saving more power consumption. SOLUTION: The direct RF modulation transmitter comprises: a passive mixer circuit 100 which inputs digital baseband data D of 1 bit, inverted data DN, a first RF signal, and a second RF signal whose phase is different from that of the first RF signal by 180 degrees and outputs a first voltage signal and a second voltage signal; and a plurality of unit blocks which include a MOS transistor 107, and MOS transistors 105, 106 which convert constant current generated by the MOS transistor 107 to a first output signal and a second output signal in accordance with the first voltage signal and the second voltage signal outputted from the passive mixer circuit 100.; The direct RF modulation transmitter modulates the first RF signal and the second RF signal by a digital baseband signal comprising digital baseband data of a plurality of bits and adds the output signals from the respective unit blocks.

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outputs a first voltage signal and a second voltage signal; and a plurality of unit blocks which include a MOS transistor 107, and MOS transistors 105, 106 which convert constant current generated by the MOS transistor 107 to a first output signal and a second output signal in accordance with the first voltage signal and the second voltage signal outputted from the passive mixer circuit 100.; The direct RF modulation transmitter modulates the first RF signal and the second RF signal by a digital baseband signal comprising digital baseband data of a plurality of bits and adds the output signals from the respective unit blocks.