

TO: HKSTC
FR: Tsuen Shing Enterprises Ltd.
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Circuit Description

1. RX AMP: to amplifier the RX signal, components including Q4,T1,L1,C13,R9 and R10.
2. TX OSC, MOD and RX DET: Main function is to oscillate the TX signal, to modulate the audio signal and receive the detection. Components including Q3,T1,X1,C7-10,R4-6.
3. AF AMP: For amplify the TX MOD signal and RX audio signal. Components including Q1,Q2,B1,VOL1,C5,C1,R1,R2,R8 and etc.
4. Speaker and MIC: the main functions are output the RX audio signal and modulating the signal for audio frequency input.

Confirmation of Bandwidth Control of Circuitry

As The frequency response range of speaker 200HZ ~10KHZ, and the frequency response range of AF AMP is 22HZ~21KHZ, so when using speaker to replace for MIC, the TX modulation response will not exceed 200KHZ.