

ABSTRACT

The objective of the disclosure is to suppress extreme performance degradation caused by frequency relationship of a specific beat signal even when a plurality of communication carriers is input in a wideband. A microwave amplifier includes: a bias
5 circuit that includes a line (20) having an electrical length of one quarter the wavelength at the frequency configured to be amplified by the microwave amplifier and being connected between the output terminal of an amplifier (11) and a bias voltage source (13), and a capacitor (14) connected between a terminal where the line (20) is connected to the bias voltage source (13) and a ground (10) that defines the reference potential of the
10 microwave amplifier; and a resonant circuit that includes a resistor (15) and a capacitor (16) connected in series between the ground (10) and the terminal where the line (20) is connected to the bias voltage source (13).