

Bias Circuits for RF Devices

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A circuit that automatically maintains bias levels over temperature variations is often essential and often complicated especially for any RF circuit design as the temperature.

The bias network determines the amplifier performance over temperature as well as RF effect. The DC bias conditions of the RF transistor is usually established independently of the RF design. Power efficiency, stability, noise, thermal runaway, and gain is not one that multi-transistor often exhibiting as bias configuration.

In multi-transistor amplifier configurations, DC biasing circuit for a couple of reasons:

1. The circuit requires two separate voltage supplies to provide the desired levels of bias for both the common emitter and the common base stages.
2. They are biased with same biasing applications, but biasing sets requirements that these separate voltages should be independent of a single supply.
3. Transistors are automatically temperature sensitive, leading to unwanted self-heating runaway. Thermal runaway will quickly destroy a power transistor. An automatic current source will automatically increase its biasing levels as the temperature rises, which the amplifier is temperature stabilized to reduce distortion.

Amplifier Bias Classes of Operation

Several classes of amplifier biasing are used in radio and communication systems, each with its own distinct advantages and disadvantages. The most prevalent classes of bias operation are Class A, B, AB, C, and D. All of these classes use strict components to bias the transistor at a different DC operating current, or bias.

Class A BJT class bias must have an A-C input, that have greater B-C values of around 90%. These values will correspondingly point to the B-C load line, particularly Class A and Class B.



In the graph above the load line is shown as indicated above across the values of V_{CE} and I_{CQ} . The load line is shown over half of the maximum values.

Class A single-ended amplifiers are commonly used only for small signal power applications. Class B with generally require a complementary load device as the the operating point is at the origin of the load line. This circuit will have a linear output characteristic to keep the output current at a level based on a certain constant current value constant. It is compared to the amount of signal power required. The class B bias is a biasing point where the operating point is at the origin.

Simply by increasing the bias of the amplifier to a small amount, Class AB operation can be achieved. But any Class AB single-ended amplifier will create more output distortion than a Class B type that the operating point is at the origin. Class AB is an operating point where the biasing is through the operating point and away from the origin. This will require an input bias circuit with some self-heating runaway from ambient conditions.

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JA Banks



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