

Bias Circuits for RF Devices

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A lot of RF schematics mention "bias circuit not shown", when actually one of the most critical yet often overlooked aspects in any RF circuit design is the bias network.

The bias network determines the amplifier performance over temperature as well as RF drive. The DC bias condition of the RF transistors is usually established independently of the RF design. Power efficiency, stability, noise, thermal runaway, and ease to use are the most concerns when selecting a bias configuration.

A transistor amplifier must possess a DC biasing circuit for a couple of reasons:

- We would require two separate voltage supplies to furnish the desired class of bias for both the emitter-collector and the emitter-base voltages.
- This is in fact still done in certain applications, but biasing was invented so that these separate voltages could be obtained from but a single supply.
- Transistors are remarkably temperature sensitive, involving a condition called thermal runaway. Thermal runaway will rapidly destroy a bipolar transistor, as collector current quickly and uncontrollably increases to damaging levels as the temperature rises, unless the amplifier is temperature stabilized to nullify this effect.

Amplifier Bias Classes of Operation

Special classes of amplifier bias levels are utilized to achieve different objectives, each with its own distinct advantages and disadvantages. The most prevalent classes of bias operation are Class A, AB, B, and C. All of these classes use circuit components to bias the transistor at a different DC operating current, or I_{QD} .

When a BJT does not have an A.C. input, it will have specific D.C. values of I_C and V_{CE} . These values will correspond to a specific point on the D.C. load line, also named Quiescent Current I_{QD} .



In the graph above the circuit is said to be midpoint biased since the values of I_C and V_{CE} at Quiescent point are one-half of their maximum values.

Class A single-ended amplifiers are ordinarily used only in small signal low power applications. Class A will generally require a constant current bias source to fix the operating point regardless of the RF drive and output. The circuit will have to have some sort of feedback to keep the output current at a fixed level, or a circuit must be created whose current is large compared to the amount of output power required (i.e., it is class-A in that the operating point movement is minimal).

Simply by decreasing the log of the amplifier by a small amount, **Class AB** operation can be reached.

But any Class AB single-ended power amplifier will create more output distortion than a Class A type due to the output clipping of the signal's waveform.

Class AB or B operations require some form of positive biasing - though the operating point will move with RF drive. This will require an "open-loop" circuit with some sort of compensation over ambient conditions.

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