

3. Balanced Modulator

Aim:

1. To construct and properly adjust a balanced modulator and study its operation.
2. To observe that the output is a double sideband with a suppressed carrier signal.
3. To adjust it for optimum carrier suppression.
4. To verify that the output audio level directly affects the double side-band output amplitude.
5. To observe that the output is maximum with zero audio input.
6. To measure carrier only output and the peak side-band output and to calculate the carrier suppression.

Equipment Required:

Analog communication kit, CRO connecting wires.

Component Required:

1. IC'S: 1496- (1no)
2. Resistors: 100 Ω - (1no), 820 Ω - (1no), 1k Ω - (1no) 1.2k Ω - (1no), 2.7k Ω - (1no), 10k Ω - (3nos), 47k Ω - (1no), 50k Ω -POT
3. Capacitors: 1 μ F- (1no), 22 μ F- (1no), 100 μ F- (2nos)

Theory:

One circuit that lends itself extremely well to balanced modulator application is the differential amplifier. A simplified diagram of a differential amplifier is shown in figure 1.

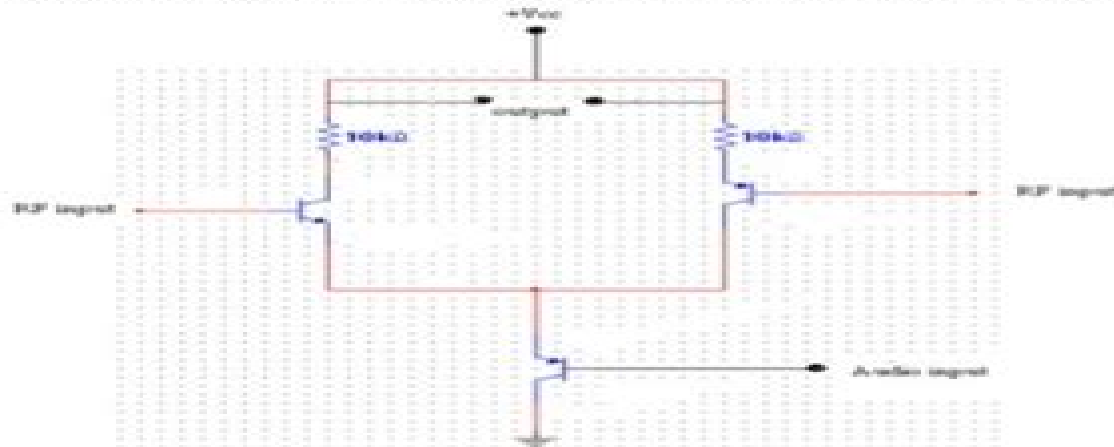


FIG 1: A Differential amplifier used as a balanced modulator

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