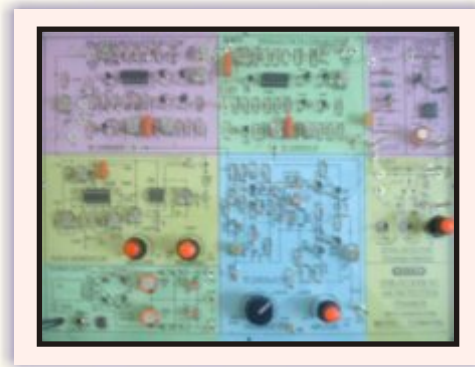




VESTIGIAL SIDEBAND AMPLITUDE MODULATION/DEMODULATION MODEL - COM103V

This trainer has been designed with a view to provide practical & experimental Knowledge of Single sideband Suppressed carrier Amplitude Modulation /Demodulation technique on a SINGLE P.C.B.



SPECIFICATIONS

1. Power supply requirement : 230V AC, 50 Hz.
2. Built in IC based power supply.
3. On Board AF Modulating signal generator - Sine wave
Frequency Range : 300Hz to 3.4 KHz
Amplitude : 0 to 5 Vpp.
4. On Board RF carrier signal generator.
Frequency Range : 200 KHz to 1 MHz.
Amplitude : 0 to 10 Vpp.
5. On Board Band Pass Filter (452-458 KHz).
6. Modulator Type : Balanced modulator.
7. Demodulator Type : Product detector with Low Pass Filter -Cut off Freq. 3.4 KHz.
8. All parts are soldered on single PCB of size 12" x9" with complete circuit diagram screen-printed.
9. Standard Accessories : 1. A Training Manual.
2. Connecting Patch cords.

EXPERIMENTS

1. To generate SSB-SC AM signal using Double Balanced Modulator and low pass filter.
2. To demodulate SSB-SC signal using Product detector (i.e. coherent detection).
3. To see the effect of Low Pass filter on demodulated output.
4. To see the effect on SSB-SC AM modulated output by varying the amplitude and frequency of modulating signal.

In keeping view of SIGMA policy of continuous development and improvement, the Specifications may be changed without prior notice or obligation.

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