

(In accordance with our policy of keeping abreast with technical development, we reserve the right to alter this circuit wherever desirable).

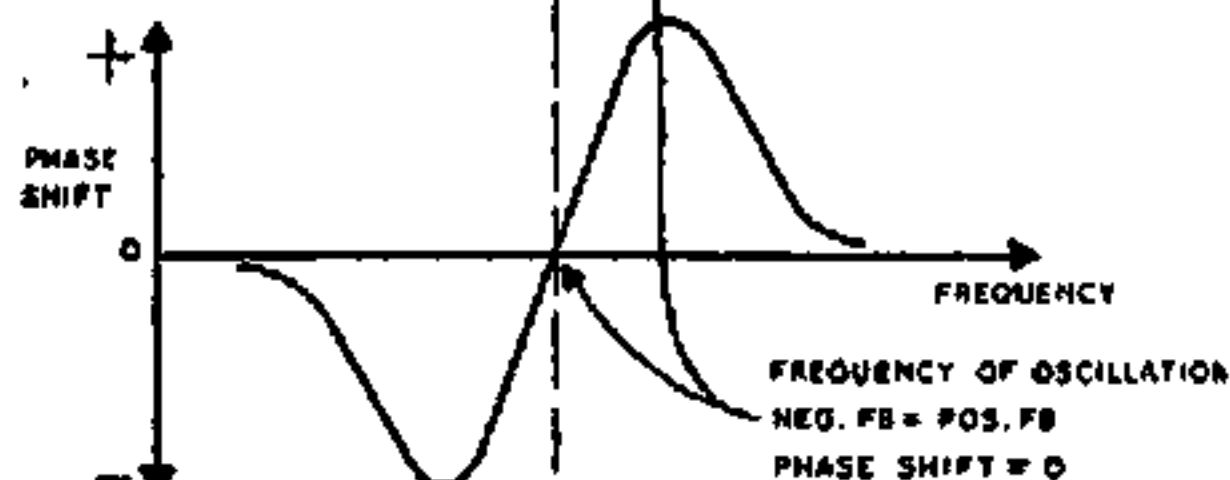
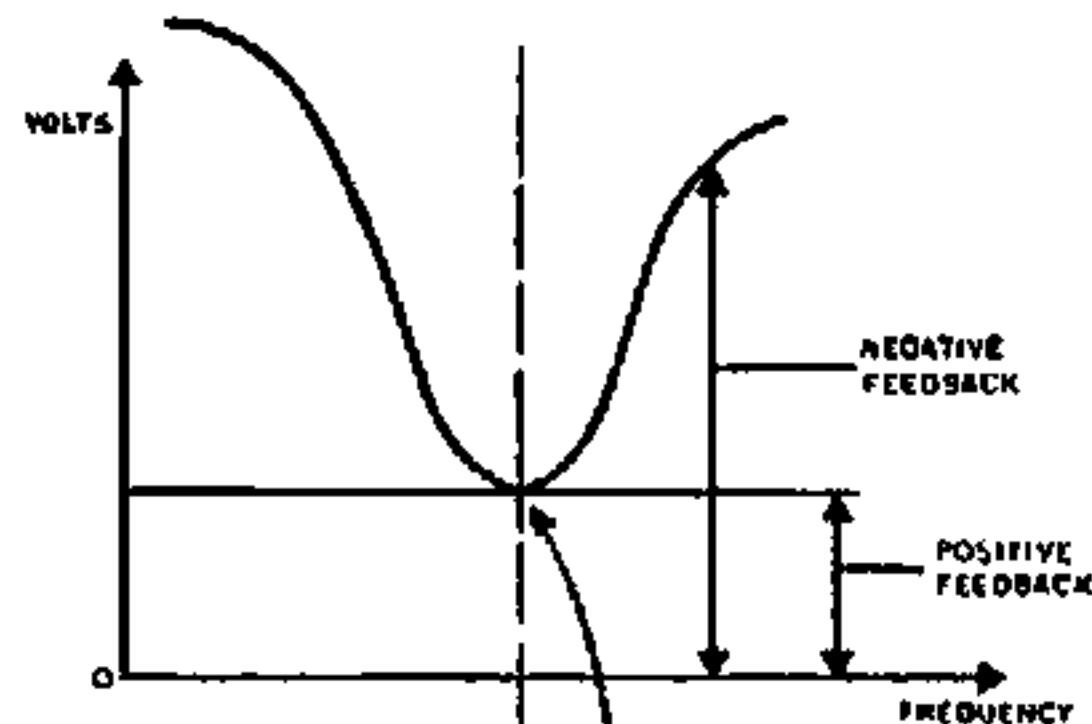
CIRCUIT DESCRIPTION (continued)

The frequency is controlled by the multiplier switch, the 0-10 and 0-100 c/s selector switches. 1% precision resistors are used in conjunction with the 0-100 c/s switch and 2% capacitors on the multiplier switch.

The Attenuator reduces the output voltage from the EL821 cathode-follower, through a continuously variable 5K Ω output control and then through a step-attenuator. The attenuator system is designed for 600 Ω output on the ranges from .003 to 1 volt and for high-impedance output at the 3 and 10 V. positions. The 600 Ω positions may be terminated by an internal load for high impedance work or this load may be disconnected when an external 600 Ω load is used. In the 3 and 10 volt positions the internal load is automatically disconnected. The attenuator operates in steps of 10dB.

The Metering circuit measures the voltage taken from the output control. A portion of this voltage, determined by the meter control, is rectified by a half-bridge using crystal diodes. Non-linearity of the diodes at low signal level is compensated by a third diode across the meter. The meter has three calibrated scales:—0-10 volts, 0-3 volts and—10 to +2 dB. When the instrument is operated with the proper termination, the meter and attenuator will indicate the output level at the terminals.

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