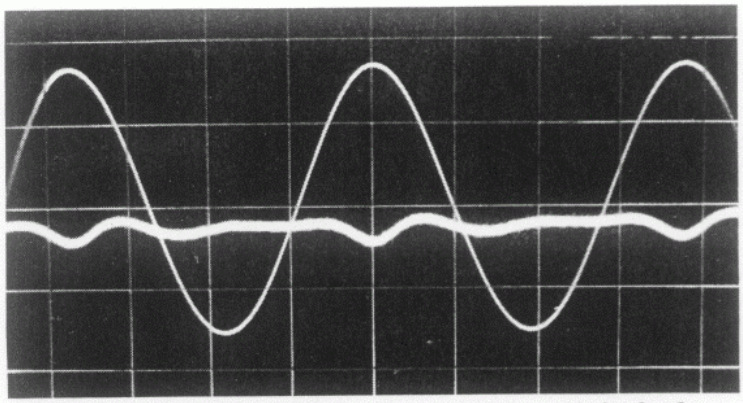
Simple Class A Amplifier

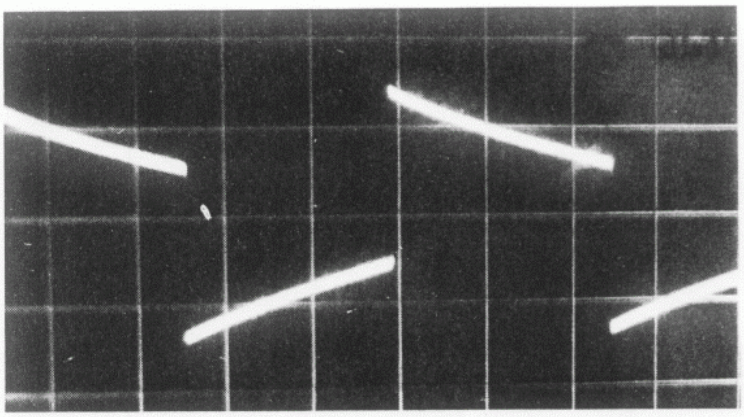
A 10-W design giving subjectively better results than class B transistor amplifiers

by J. L. Linsley Hood, M.I.E.E.

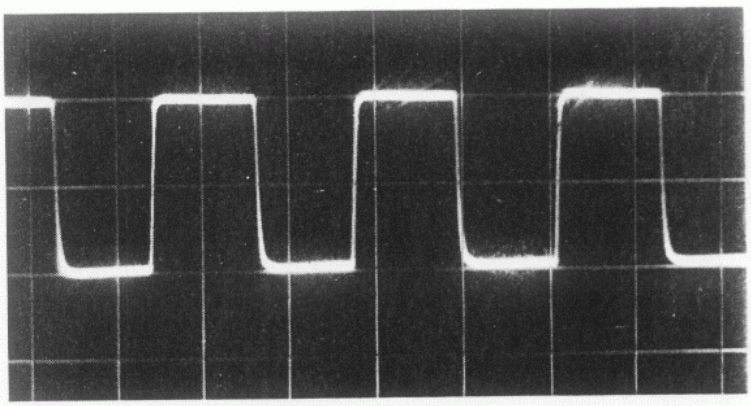
Oscilloscope Traces



Sine wave performance at 1kHz. 9 watts, 15 ohm resistive load. Fundamental on scale of 10V/cm. Distortion components on scale of 50mV/cm with r.m.s. value of 0.05%.

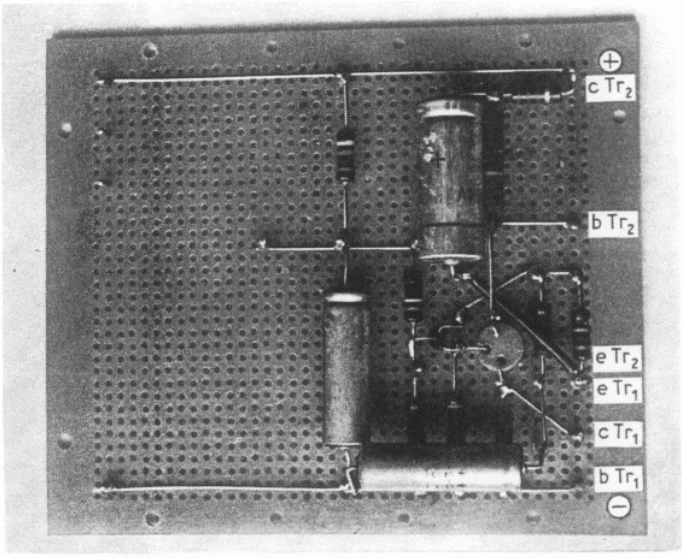


Square wave response at 50Hz.

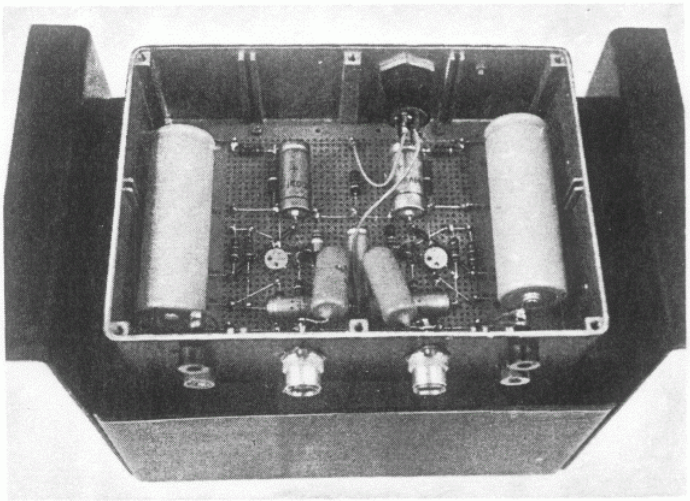


Square wave response. Scale 10V/cm. Frequency 50kHz. 15 ohm resistive load.

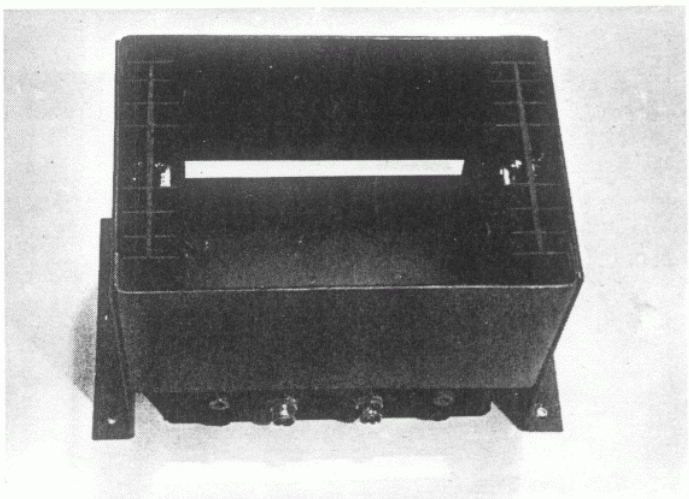
Photographs



Layout of single channel of 10 + 10 watt amplifier on standard 4in × 4¾in 'Lektrokit' s.r.b.p. pin board.



Underside of completed amplifier, with base cover removed, showing external box-form heat sink.



Looking down on the completed amplifier.