

Radio Frequency Amplifier AM-18/APT is an airborne, wide band, power amplifier designed primarily to amplify the output of Transmitting Equipment AN/APT-1, but may be used with other similar equipments operating in its frequency range. A number of German and Japanese ground and airborne search and early warning radars are now operating over this range. The equipment is similar to RF Amplifier AM-14/APT, except that it covers a higher frequency range. It enables the associated transmitters to more effectively jam enemy radars operating within its frequency range.

The equipment is designed with a two stage push-pull amplifier, and incorporates a built in power supply unit. Power is furnished from an 80/115 volt, 400-2600 c.p.s. source.

Production of this equipment started in the first half of 1944. Army Supply Program requirements as of 1 August 1944 were 2,550 for the calendar year 1944 and 50 for 1945.

Test equipments required for the maintenance and tuning of this equipment are Test Set I-139-A and Amplifier Alignment Unit TS-92/AP.

POWER INPUT	700 WATTS, 80/115 VOLTS, 400-2600 C.P.S.
POWER OUTPUT	50-80 WATTS
FREQUENCY RANGE	107-230 MC.
OUTPUT BANDWIDTH	3.5 MC.
DRIVING POWER	10-5 WATTS
INPUT IMPEDANCE	50 OHMS

TUBE COMPLEMENT			
NO.	TYPE	NO.	TYPE
2	836	2	JAN 35TG



Radio Frequency Amplifier AM-18/APT

RADIO FREQUENCY AMPLIFIER AM-18/APT TOTAL WEIGHT 60 LBS

Component	Nomenclature	Size	Weight
RF Amplifier	AM-18/APT	7 5/8" x 10 1/8" x 21 3/4"	55 Lbs.
Mounting Base and includes plugs, adaptors and cables.	MT-171/U	2 1/4" x 10 5/8" x 22"	3 1/4 Lbs.