

**AN/ART-13 MODULATION TRANSFORMER OPERATING CHARACTERISTICS AND SPECIFICATIONS**

(Copied from G.E. spec. sheet no. K-7101306, dated March 28, 1945)

Transformer is constructed for continuous operation. All coils are vacuum - impregnated.

Frequency Response

Flat within 1 db. from 300 to 4000 cps.

Currents

- 1) Normal specified current for 811's is 300 ma.
- 2) 813 plate winding will normally carry 150 ma.
- 3) 813 screen winding will normally carry 60 ma.

Secondary Inductance

The impedance of the secondary between terminals 4 and 5 shall not decrease more than 40% with 150 ma in the winding, from the impedance measurement with no D.C. in the winding.

Hi-Pot

- 1) Between 811 winding, 813 plate winding to ground (case)-4250V @ 60 cycles.
- 2) Between 813 screen winding to ground (case)-2500V @ 60 cycles.

Resistance

The maximum allowable resistance is specified as follows:

<u>Terminals</u>	<u>Ohms</u>
1-3	300
4-5	130
6-7	45

Output

The normal audio output into winding 4-5 is 100 watts into an 8,000 ohm load, and into winding 6-7 is 10 watts into a 3,000 ohm load.

Ambient Operating Temperatures

Ranging from -40 deg. C. to +50 deg. C; the temperature may remain approximately constant for long periods of time, or may vary at a rate as high as 4 deg.C. per minute.

<u>Pri.</u>	<u>Turns Ratio</u>	<u>Z Ratio</u>
To Sec. 4-5	1.45:1	2.1:1
To Sec. 6-7	4:1	16:1

