

DATE 8-19-52
SH. 1 OF 2
COMPILED BY

TMC SPECIFICATION NO. S-121

TITLE: PRODUCTION TEST PROCEDURE TR-004

JOB 123

APPROVED *[Signature]*

PURPOSE:

The purpose of this specification is to outline a procedure for the production testing of the Beverage Antenna Coupling transformer TR-004.

1. GENERAL DESCRIPTION:

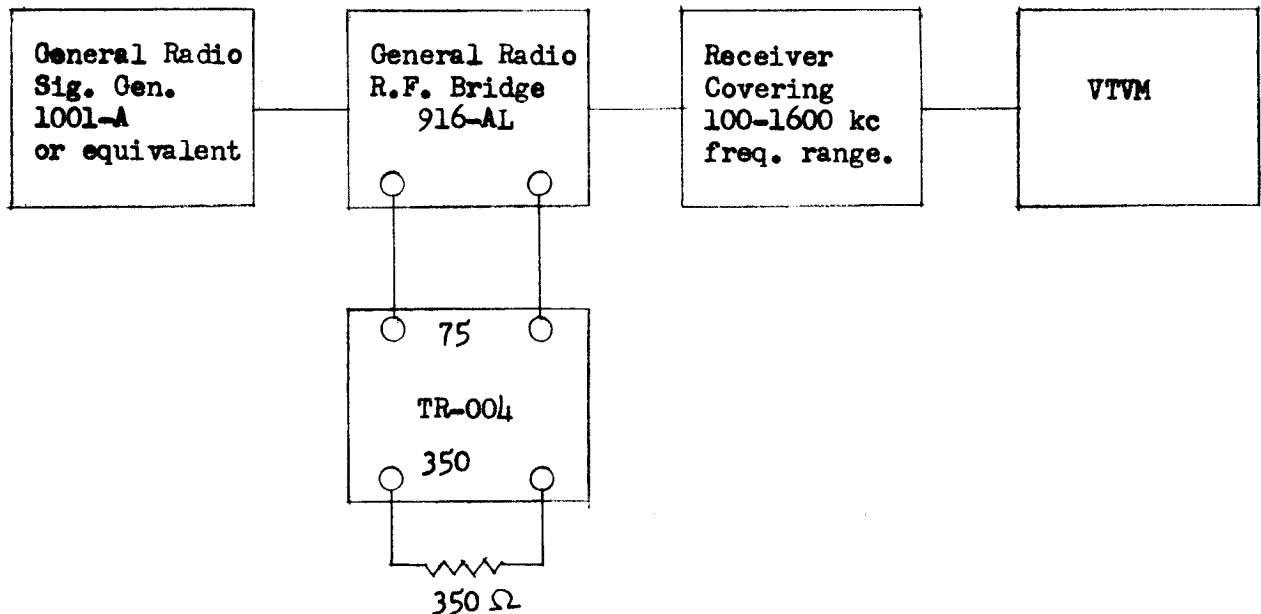
The TR-004 transformer serves in conjunction with TR-003 to provide an antenna match for far end reception.

Input Impedance	350 Ohms.
Output Impedance	75 Ohms.
Frequency Range.	100-1600 Kc.

2. DETERMINATION OF OUTPUT IMPEDANCE:

Test equipment is set up as shown in the following test diagram. Resistance and reactance measurements are made in accordance with the instructions supplied by the General Radio Co. Impedance values are obtained by the vectorial addition of the resistive and reactive components.

Transformer impedance over the frequency range of 100-1600 kc should conform with the values as established by the curves of Dwg. AEM054.



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3. DETERMINATION OF FREQUENCY RESPONSE:

Test equipment is set up as shown in the following test diagram. V1 the signal impressed by the signal generator is held constant over the frequency range. (100-1600 kc). V2 is observed and recorded over the frequency range. The relative response is calculated in db. employing 400 Kc as the reference level.

The frequency response over the frequency range should conform with the values as established by the curves of Dwg. AEM053.

