

DATE <u>8-19-52</u>	TMC SPECIFICATION NO. S-119
SH. <u>1</u> OF <u>2</u>	
COMPILED BY <u>ARB</u>	TITLE: <u>PRODUCTION TEST PROCEDURE TR-003</u>
APPROVED <u>[Signature]</u>	JOB <u>123</u>

PURPOSE:

The purpose of this specification is to outline a procedure for the production testing of the Beverage Antenna Coupling transformer TR-003.

1. GENERAL DESCRIPTION:

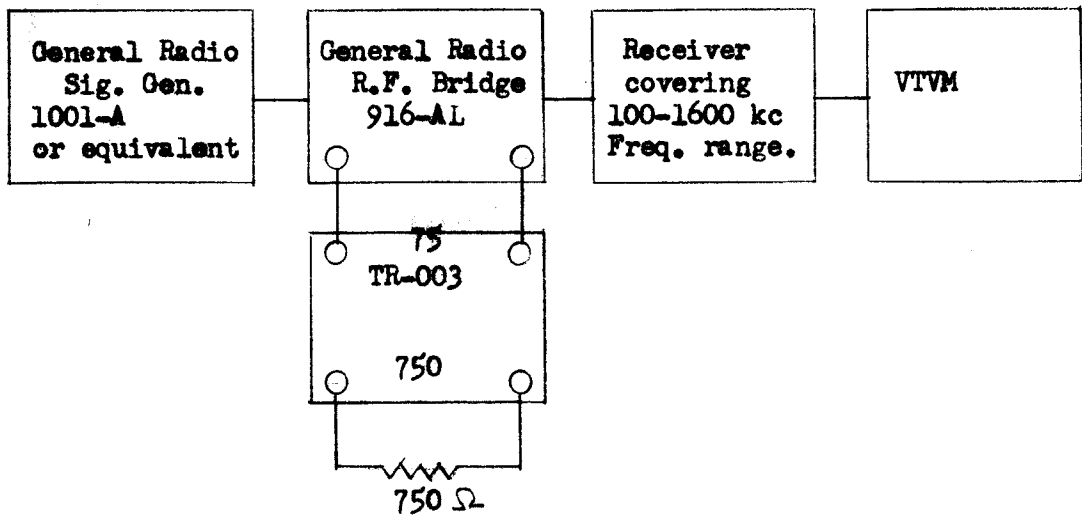
The TR-003 transformer serves to match a 750 ohm two-wire Beverage antenna to a 75 ohm co-axial cable for near end reception.

Input Impedance: 750 Ohms, center tapped.
 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. AEM052



DATE 8-20-52
SH. 2 OF 2
COMPILED BY
ARB

TMC SPECIFICATION NO. S-119

TITLE: PRODUCTION TEST PROCEDURE TR-003

JOB 123

APPROVED *[Signature]*

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. AEM051.

