TMC SPECIFICATION						No. s-861			
REV: DA					<u>'</u>				
COMPILED: RRH	CHECKED:		APPD:	MMAcun	SHEET	1	OF		
TITLE:				//////					
Typed by mtp 5/26/	65								

TEST PROCEDURE

for

TRC-500-50/300

TN	No. s - 861						
REV: OA							
COMPILED: RRH	CHECKED:	APPD:		SHEET	2	OF	5
TITLE: TEST PROCEDUR	E FOR TRC-500-50/300						
Typed by mtp 5/26/6	5						

GENERAL:

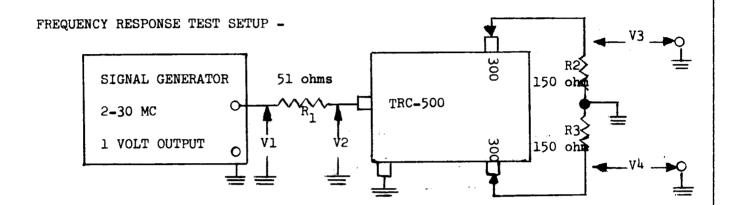
The TRC-500 is a broadband transformer capable of coupling a 50 ohm unbalanced 500 watt transmitter to a balanced or unbalanced, 300 ohm load. The frequency range is 2-30 mcs.

FREQUENCY RESPONSE:

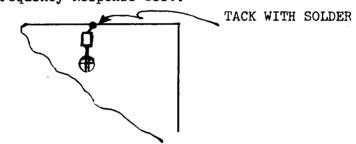
Equipment Required

- 1. Model 82 Boonton signal generator or any R.F. signal generator capable of 1 volt output and frequency range from 2-30 mc's.
 - 2. Three (3) Hewlett-Packard vacuum tube voltmeters.
 - 3. Resistors (non-inductive)
 - A. Two (2) 150 ohm, 1/2 watt 5% resistors.
 - B. One (1) 51 ohm, 1/2 watt 5% resistor.

TM	C SPECIFICATION	ON	NO. s-861
REV: A			
COMPILED: RRH	CHECKED:	APPD:	SHEET 3 OF 5
TITLE: TEST PROCEDURE	FOR TRC-500-50/300		
Typed by mtp 5/26	/65		



Suggested mounting of resistors for Frequency Response Test.



Keep all terminating leads as short as possible. Connect voltmeters at V3 and V4; switch a voltmeter between V1 and V2.

Typical Readings

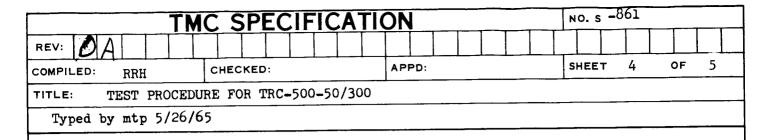
Freq. Mcs	٧ı	V 2	V3	Δ4
2	1.0	• 54	•61	.•61
8	1.0	•55	•61	.61
16	1.0	.56	. 60	.•60
30	1.0	.62	. 53	•53

$$\frac{V3\&V4}{V2}$$
 = 1.6 to 2.3

$$\frac{V3}{V4}$$
 = .86 to 1.20

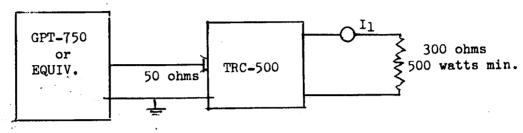
Record voltage readings and computed values of $\frac{V3}{V4}$ and $\frac{V3\&V4}{V2}$ on the test data sheet.

TMC FORM SPEC 1



POWER TEST -

0-3A Thermocouple Meter



Set up transmitter at 20 mcs and connect TRC-500 to 300 ohm load. Adjust transmitter output for reading of 1.3 amperes on I_1 . Record on Test Data Sheet. Hold power on transformer for 1/2 hour and observe for overheating or breakdown.

1 M - 8-64-AINS.

TM	No. s - 861		
REV:			
COMPILED: RRH	CHECKED:	APPD:	SHEET 5 OF 5
TITLE: TEST PROCEDURE	FOR TRC-500-50/300		
Typed by mtp 5/26	/65		

TEST DATA SHEET

for

TRC-500-50U/300B

SERI	AL NO.	_
MFG.	NO.	

TEST I - FREQUENCY RESPONSE AND BALANCE

Freq. Mcs.	Vl	V 2	· V3	Λħ	<u>V3&V4</u> V2	V3/V4
2	1.0					
8	1.0					
16	1.0					
30	1.0					

TEST II - TRANSMITTER LOAD TEST

LOAD	Il
300 ohms	

TMC FORM SPEC 1

REVI	SION	SHEET	ſ	THE TECHNICAL MATERIEL CORP. MAMARONECK NEW YORK	S-861	Ø
DATE	REV.	SHEET	EMN #	DESCRIPTI		APP.
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