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INSPECTION AND FACTORY

ACCEPTANCE SPECIFICATIONS

FOR MODEL HFTM-10K

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GENERAL:

The TMC series of HFTM-10K Transmitters are High Frequency Radio Transmitters capable of providing SSB, ISB, CW, AM FSK and FAX operation. The Transmitter will supply 10KW average or PEP power. The HFTM-10K operates over the frequency range of 2 to 29,9999 MHZ.

OBJECTIVE:

The inspection procedure outlined herein are intended to serve as verification of system operation and to insure the compatability and performance of the various individual modular assemblies which have been completely tested and inspected on an individual basis prior to system integration.

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2.1 POWER OUTPUT AND VSWR PROTECTION

Performance Criteria

- Power Output The linear power amplifier is capable of providing 10kW Average and PEP in continuous keydown service.
- VSWR Protection The transmitter has a nominal RF output impedance of 50 ohms and has sufficient tuning range to operate into a load whose impedance can have any phase producing a maximum VSWR of 3 to 1. The transmitter is equipped with an adjustable trip that will automatically disable the transmitter HV when a selected VSWR is exceeded.

Test Arrangement

Relevant Figure

2.1

1. Power Output 2.1 VSWR Protection 2.1

Test Equipment Schematic Item No. In Test Data Required Reference Appendix 1

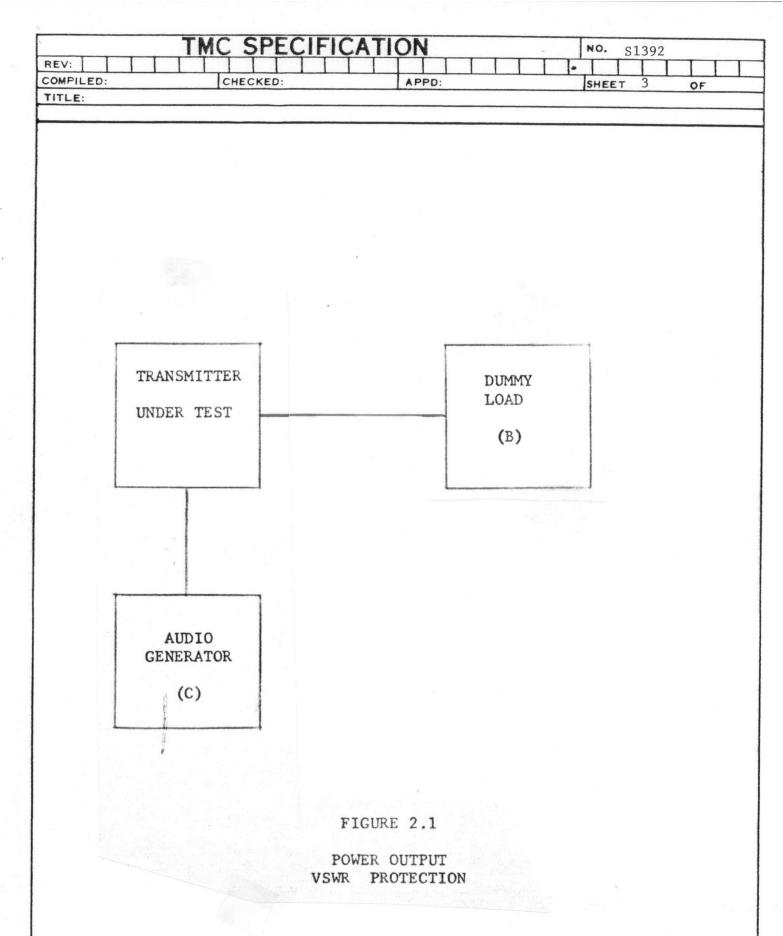
В

1. Dummy Load 1 2. Audio Generator C

Test Procedure D.

1. Power Output

- Connect the equipment as shown in Figure 2.1
- Tune the transmitter to the desired test frequency and load it to rated average power output in CW mode.
- c. Record the power output as indicated on the transmitter power meter.
- d. Reverse reflected power meter diode for this test. Meter overload should remove High Voltage from transmitter when overload point is reached. After test is complete restore diode to moniter reflected power.



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2.2 NOISE, HUM AND SPURIOUS EMISSION

- A. Performance Criteria
 - 1. Noise, hum and spurious emission output levels shall be at least 50 db below PEP.

B. Test Arrangement

Relevant Figure

1. Noise, hum and spurious emission levels

2.2

C.	Tes	t Equipment Required	Schematic Reference	Item No. In Appendix 1	Test Data Form
		Spectrum Analyzer Dummy Load	A B	3 1	2.2

D. Test Procedure

- a. Connect the equipment as shown in Figure 2.2
- b. Tune the transmitter to 3 MHz at rated average power output in the CW mode.
- c. Adjust the spectrum analyzer for a full scale presentation of the carrier and establish a 0 db reference level.
- d. Remove 20 db of attenuation from the spectrum analyzer expanding the calibrated display from 0 thru -40db to -20 thru -60 db.
- e. Adjust the spectrum analyzer for a 500 Hz bandwidth and record the noise and hum level.
- f. Increase the spectrum bandwidth to maximum and record the level of any spurious emissions.
- g. Repeat parts b to f at frequency listed on test data form No. 2.2.

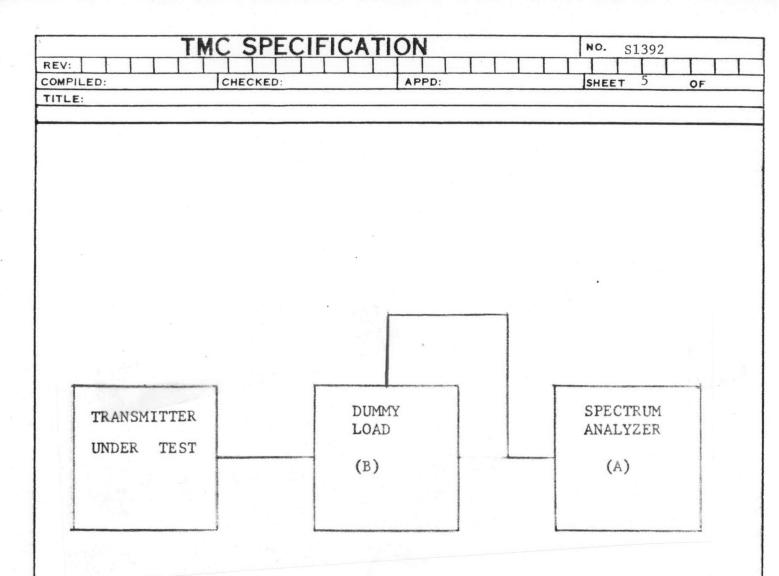


FIGURE 2.2

NOISE LEVEL AND SPURIOUS EMISSIONS

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2.3 INTERMODULATION

- A. Performance Criteria
 - 1. At rated PEP, third and higher order intermodulation distortion products shall be at least 35 db below PEP output
- B. Test Arrangement

Relevant Figure

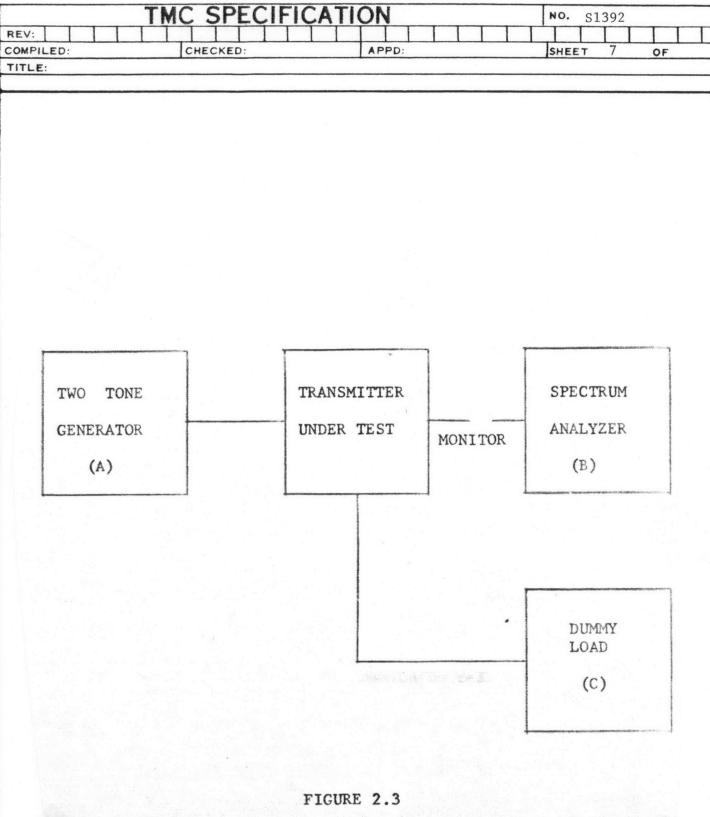
1. Intermodulation Distortion

2.3

С.	Tes	st Equipment Required	Schematic Reference	Item No. In Appendix 1	Test Data Form
	1.	Two Tone Generator	A	4	2.3
	2.	Spectrum Analyzer	В	3	
	3.	Dummy Load	C	1	

D. Test Procedure

- 1. Intermodulation Distortion:
 - a. Connect the equipment as indicated in Figure 2.3
 - b. Adjust the two tone input for a convenient level in the upper sideband channel. Set the carrier insert control for maximum carrier suppression.
 - c. Tune the transmitter for rated PEP power output at 2 MHz.
 - d. Adjust the spectrum analyzer for a full scale presentation, thus establishing a Odb reference level.
 - e. Remove 20db of attenuation from the spectrum analyzer expanding the calibrated display from 0 thru -40db to -20 thru -60db.
 - f. Record the third order intermodulation product level. Third and higher order intermodulation products must be at least 35db down.
 - g. Repeat steps b to f at frequency listed on test data form No. 2.3.



INTERMODULATION

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2.4 SIDEBAND REJECTION AND CARRIER SUPPRESSION

- A. Performance Criteria
 - 1. Sideband Rejection Unwanted sidebands shall be suppressed at least 50db below PEP.
 - 2. Carrier Suppression The carrier level must be 50db below PEP.
- B. Test Arrangement
 1 and 2. Sideband Rejection

Relevant Figure 2.4

С.	Test Equipment Required	Schematic Reference	Item No. In Appendix 1	Test Data Form
	1. Spectrum Analyzer	В	3	2.4
	2. Audio Generator	C	2	
	3. Dummy Load	A	1	

D. Test Procedure

- a. Connect the equipment as shown in Figure 2.4.
- b. Tune the transmitter to 6 MHz at rated average power output, in USB mode, with single tone (500 HZ).
- c. Adjust the spectrum analyzer for full scale presentation of the signal to establish a 0 db reference level. Now remove 20 db of attenuation from spectrum analyzer.
- d. Insert small amount of carrier. Reduce carrier to max suppression. Record carrier suppression on test data form No. 2.4.
- e. Tune transmitter to full rated output at 6 MHz, using a $500~\mathrm{Hz}$ in the USB.
- f. Set up spectrum analyzer as in Step C.
- g. Observe the display and record the level of 500 Hz tone in unwanted sideband, on test data form No. 2.4.

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AUDIO GENERATOR (C)		TRANSMITTER UNDER TEST	DUMMY LOAD (A)
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			SPECTRUM ANALYZER (B)

FIGURE 2.4

SIDEBAND REJECTION AND CARRIER SUPPRESSION

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2.5 A3-H DISTORTION

A. Performance Criteria

1. At rated PEP output, the 2nd and 3rd harmonics of the modulating signal shall be at least 40 db below the carrier level with 90% of modulation.

B. Test Arrangement

Relevant Figure

1. A3-H Distortion

2.5

С.	Tes	st Equipment Required	Schematic Reference	Item No. In Appendix 1	Test Data Form
	1.	Two Tone Generator	A	4	2.5
	2.	Spectrum Analyzer	В	3	
	3.	Dummy Load	C	1	
		Dummy Libert			

D. Test Procedure

- a. Connect the equipment as indicated in Figure 2.5.
- b. Place MMX meter switch in carrier position and adjust the carrier level for an indication of "FULL" on MMX meter.
- c. Connect the Spectrum Analyzer to MMX external monitor jack.
- d. Increase the audio tone level in MMX until 90% of modulation.
- e. Tune transmitter to full rated power output.
- f. Connect the spectrum analyzer to transmitter monitor jack and adjust the meter for a full scale presentation, thus establishing 0 db level.
- g. Remove 20 db of attenuation from the analyzer and read the 2nd and 3rd harmonics attenuation.

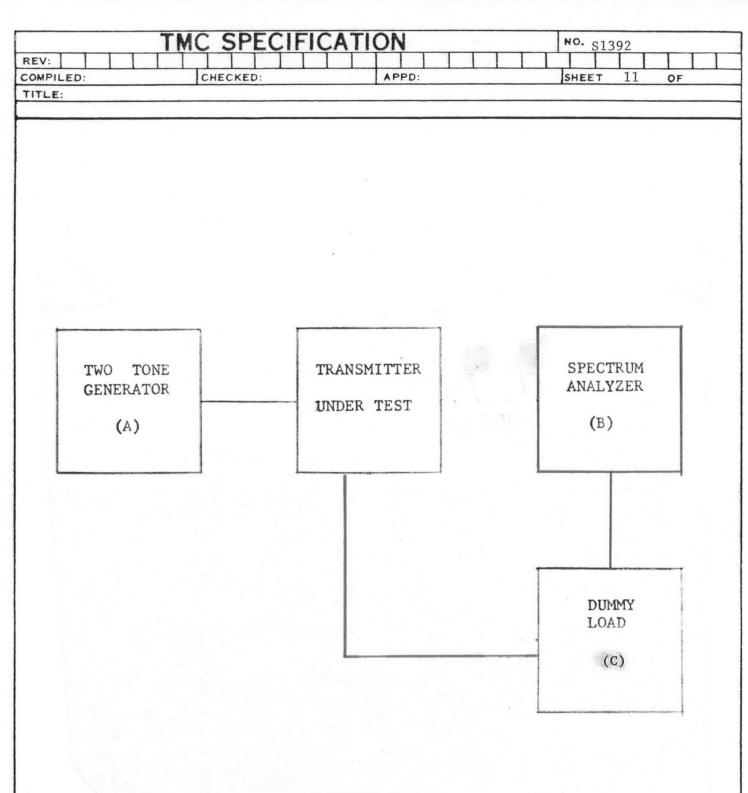


FIGURE 2.5
AM DISTORTION

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2.6 ALDC TEST

- A. Performance Criteria
 - 1. With ALDC engaged, transmitter must maintain rated output within +20%.
- B. Test Arrangement

Relevant Figure

ALDC

2.6

C. Test Equipment Required Schematic Item No. In Reference Appendix 1 Form

1. Dummy Load A I 2.6

- D. Test Procedure
 - a. Connect the equipment as shown in Figure 2.6
 - b. Tune the transmitter to 2 MHz at 11 KW in CW mode.
 - c. Slowly engage ALDC until output drops to about 10 KW.
 - d. When increasing transmitter drive to maximum, output must remain within $\pm 20\%$.
 - e. Record output.
 - f. Repeat steps b to e at frequencies listed on test data form No. 2.6.

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TRANSMITTER

UNDER TEST

DUMMY
LOAD

(A)

FIGURE 2.6

ALDC

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2.9 AUDIO RESPONSE

A. Performance Criteria

1. Transmitter audio response must be \pm 1.5db from 250 to 3040 cycles.

B. Test Arrangement

Relevant Figure

Audio Response

2.7

С.	Tes	t Equipment Required	Schematic Reference	Item No. In Appendix 1	Test Data Form
	1.	Dummy Load	В	12	2.7
	2.	Audio Generator	A	10	
	3.	High Frequency Counter	C	9	

D. Test Procedure

- a. Connect Equipment as shown in Figure 2.7.
- b. Tune transmitter for output of 1kW, at 2MHz, in CW mode.
- c. Adjust audio generator for an output of Odb, at a frequency of 1 KHz.
- d. Reduce transmitter drive to min., and place MMX in USB mode.
- e. Increase drive until transmitter output indicates 1kW.
- f. Slowly reduce frequency and record output as indicated on test data form No. 2.7.
- g. Return generator frequency to 1KHz, now slowly increase frequency and record output as indicated on test data form.
- h. Output should not deviate more than 3 db thru the range of 250-3040 cycles.
- i. Repeat steps d to h on LSB.

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(A)			

FIGURE 2.7

AUDIO RESPONSE

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3.0 HARMONIC SUPPRESSION

A. Performance Criteria

1. The transmitter is capable of producing full rated average power output with harmonics suppressed at least 40db below PEP.

В.	Test Arrangement	Re	levant Figure	Form
	1. Harmonic Suppression	n	2.8	2.8
C.	Test Equipment Required	Schematic Reference	Item No. In Appendix 1	
	1. Dummy Load	A	1	
	2. Spectrum Analyzer	В	3	
	3. Coaxial RF Voltage I	Divider C	7	
			6.0	

D. Test Procedure

- a. Connect the equipment as shown in Figure 2.5A.
- b. Tune the transmitter to the center frequency of one of the RF bands and load it to full rated average power output in the CW mode.
- c. Tune the spectrum analyzer to the fundamental frequency and establish a Odb reference level. Tune the signal generator to the test frequency and note the level required to produce a full scale deflection on the analyzer.
- d. Tune the spectrum analyzer to the frequency of the second harmonic. Adjust the spectrum analyzer for full scale deflection.
- e. Remove 20db of attenuation from the spectrum analyzer and note the level of the second harmonic. Add the attenuation correction factor for the coaxial divider and obtain the level of the second harmonic. Record this level.
- f. Repeat parts d and e for the third and higher harmonics.
- g. Repeat parts b to f at frequencies listed on test data form No. 2.8.

Test Data

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FIGURE 2.8
HARMONIC SUPPRESSION

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3.1 FREQUENCY ALLOCATION

A. Test Arrangement

Relevant Figure

Frequency Allocation

2.9

B. Test Equipment Required

Frequency Counter

Schematic Reference Item No. In Appendix 1

Test Data
Form
2.9

Test Procedure

- a. Connect the equipment as shown in Figure 2.9.
- b. Allow MMX Exciter at least a one hour warm up before starting test.
- c. Using test data form No. 2.9 record exciter output frequency.
- d. Measured frequency must be within + one cycle.

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FIGURE 2.9

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APPENDIX 1

TEST EQUIPMENT LIST

ITEM NUMBER	DESCRIPTION	MANUFACTURER & MODEL USED	TMC SERIAL #
1	Dummy Lo a d	TMC 18K/50 (Modified) or equivalent.	5056
2	Audio Generator	General Radio Model 1304-B or equiv.	1855
3	Spectrum Analyzer	HP 141 or equiv.	5074
4	Two Tone Generator	TMC Model TTG-1 or equiv.	60820
5	Step Attenu at or	Telonic TG950 or equiv.	508 7
6	RF Signal Generator	Hewlett-Packard 606A or equiv.	1854
7	Coaxial RF Voltage Divider	p/o TMC 18K/50 (modi- fied) or equiv.	5056
8	Oscilloscope	Tektronix	2226
9	Frequency Counter	Hewlett Packard	1543
10	Audio Generator	Hewlett Packard	1851

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COMPILED:		LLLL CKED:						L,	1	<u> </u>	لـــا		\perp	
TITLE:	TRANSMITTER SE		 	APPD:					SHEE		28	OF	-	
11122.	IKANSHITTER SE	KIAL NO.			EXC1	TER	SERI	AL	No.					
Signatu	re (TMC)				Sign	atur	e (Ct	ust	ome	r)			····	
TEST DA	ATA FOR HARMONIC	MEASUREMEI	NTS		Т		DATA			Í	3			
BAND	TEST FREQUENCY	CARRIER REFERENC		BELO	OW CA	RRIE	VEL I R REF			<u> </u>				
	(MHz)	(db)		2r	nd	3rd	4	ŧth		5	th			
2.6-3.0	4.0													
8.0-12	10.0													
16-24	20.0													
24-30	26.0													

TMC SPECIFICA	HUN		NO. S1392	92					
REV:				T					
COMPILED: CHECKED:	APPD:		SHEET 29	OF					
TITLE: FREQUENCY ALLOCATION									
EXCITER		1 Hz							
	TEST D	ATA FORM	2.9						
		To A crite							
		DATE							
TRANSMITTER SERIAL NO									
EXCITER SERIAL NO.									
Signature (TMC)		Signatur	e (Customer)						
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EDEO GER AR ACTUER									
FREQ. SET AT MEASURED mHz FRDO. HZ	***								
mHz FRDQ. HZ	UNIT	e .							
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