

DATE 4-19-60

SH. \_\_\_\_\_ OF \_\_\_\_\_

COMPILED BY  
T. G.

TMC SPECIFICATION NO. S 481

A

TITLE: Production Testing Of Crystal Filter FX-159

JOB 1-4

APPROVED

*TG*

Carrier Suppression Filter

**OBSOLETE**: SEE LATEST FX-159 DWG. (EMN 10337)

Test Specification For Crystal Filter #FX-159 Carrier Suppression

Purpose:

Determination of proper operation of unit, elimination of defective assemblies.

Test Equipment Required:

1. Counter (capable of counting 250,000 cps)
2. Audio signal generator (H.P. 200 or EQIV)
3. V.T. V.M. AC type (Ballantine model #861)
4. 2 12 K ohm resistors 1/2 watt.
5. 1 600 ohm resistor 1/2 watt
6. FX-159
7. Obtain drawing of FX-159

Test Procedure:

1. Connect equipment to filter to be tested as shown. (FIG. 1)
2. Set audio generator to 251 kc cps
3. At this frequency set up your reference point.
4. This reference is obtained by having 1 volt output on the 1 V scale.
5. Using the output meter as a db indicator, make a note how many db down from your reference the signal is. (SEE FIG. 2)

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6. If the filter attenuation is more than - 1 db in the frequency of

249,700 cps To 240,000 cps

250,300 cps To 260,000 cps

also no less than 35 db @ 250 KC. Should the readings differ

than the filter has to be rejected.

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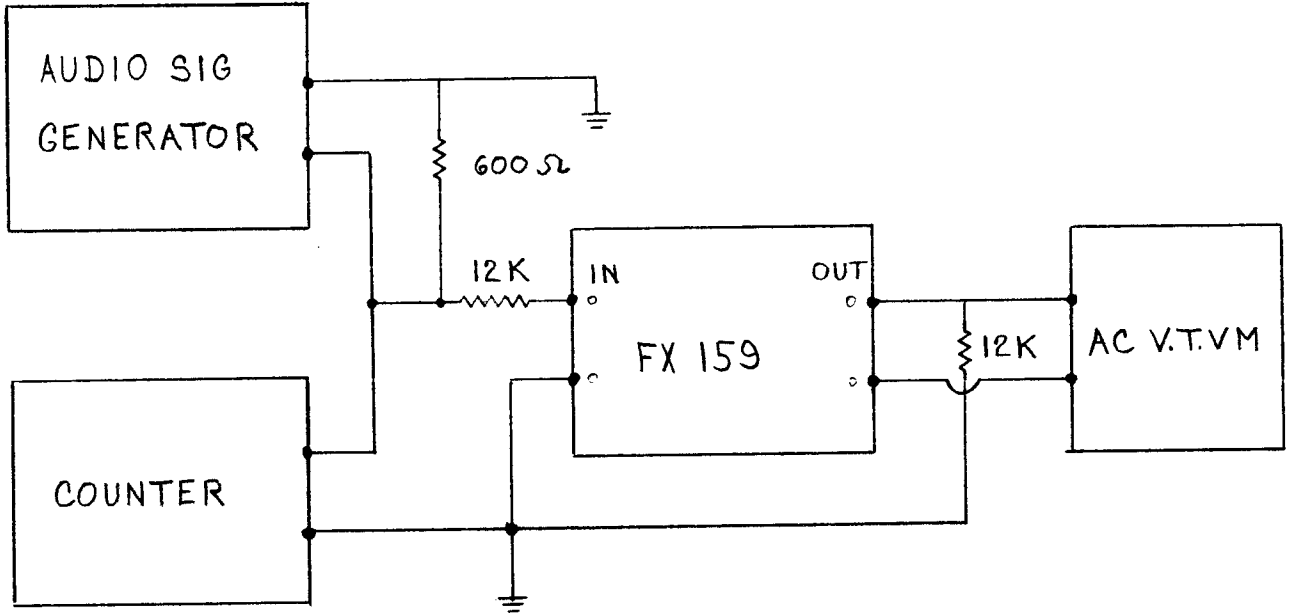


FIG. 1.

All Grounds The Same Point

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FIG 2

FX	Average	Filter Under Test	A = Accept R = Reject
	db	db	
1. 240,000 cps	-1		
2. 242,500 cps	-1		
3. 243,000 cps	-1		
4. 249,000 cps	-1		
5. 249,700 cps	-1		
6. 250,000 cps	35		
7. 250,300 cps	-1		
8. *251,000 cps	-1		
9. 257,000 cps	-1		
10. 257,500 cps	-1		
11. 260,000 cps	-1		

\* Reference Point

DATE \_\_\_\_\_

DATE ON FILTER \_\_\_\_\_

TESTER \_\_\_\_\_

FX \_\_\_\_\_

SUPERVISOR \_\_\_\_\_

SERIAL # \_\_\_\_\_

