

DATE 4-19-60
SH. _____ OF _____
COMPILED BY
T. G.

TMC SPECIFICATION NO. S 480 A

TITLE: Production Testing Of Crystal Filter FX-160

JOB 1-4

APPROVED

6

Upper Sideband

OBSOLETE

: SEE LATEST FX-160 DWG. (EMN 10337)

Test Specification For Crystal Filter #FX-160 Upper Sideband

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 12K ohm resistors 1/2 watt
5. 1 600 ohm resistor 1/2 watt
6. FX-160
7. Obtain drawing of FX-160

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 range of

251,000 cps To 257,500 cps

Not less than -60 db @ 242,500 cps

240,000 cps

Should the readings differ than the filter has to be rejected.

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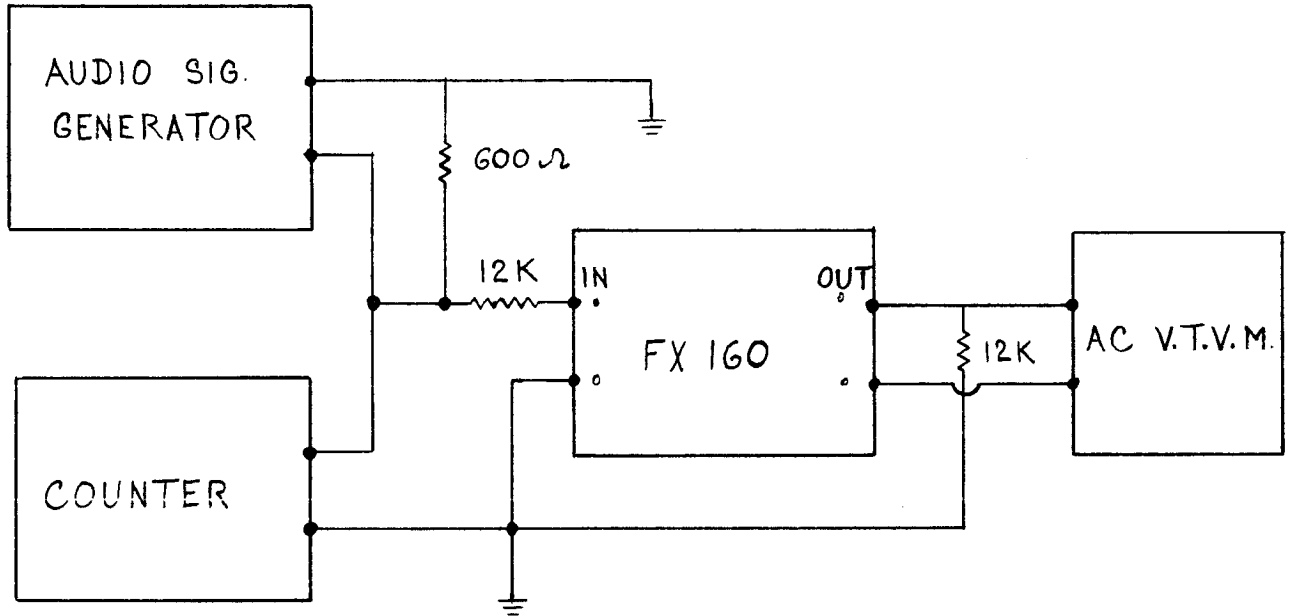


FIG 1

All Grounds At One Point

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FIGURE 2

FX-160			Average	Filter Under Test	A = Accept R = Reject
			db	db	
1.	240,000	cps	-60		
2.	242,500	cps	-60		
3.	243,000	cps	-59		
4.	249,000	cps	-52		
5.	249,700	cps	-51		
6.	250,000	cps	-25		
7.	250,300	cps	-2		
8.	*251,000	cps	0		
9.	257,000	cps	0		
10.	257,500	cps	0		
11.	260,000	cps	-6		

* Reference Point

DATE _____

DATE ON FILTER _____

TESTER _____

FX _____

SUPERVISOR _____

SERIAL # _____

