TMC SPECIFICATION				NO. S 1145
REV: ∅				
COMPILED: RRH	CHECKED:	APPD: 9/27/66	SHEET 1 OF 6	
TITLE:				
Typed by mtp 9/27/66				

TEST PROCEDURE

for

SFP-3 FILTER PANEL

A. TEST EQUIPMENT REQUIRED

1. AC VTVM - Ballantine 310A or equivalent.
2. Audio Signal Generator - Hewlett-Packard 200CD or equivalent.
3. 600 ohm - 1/2 watt, carbon resistor - 1 ea.

B. INSTRUMENT LAYOUT

1. For CHANNEL 1, connect test equipment as shown in Figure 1:
   a. 600 ohm load across terminals 3 and 4 of E101.
   b. Ballantine across 600 ohm load and switch meter to 1 volt range. Terminal 3 is the ground side.
   c. Output of Signal Generator to terminals 1 and 2 of E101. Terminal 2 is the ground side.

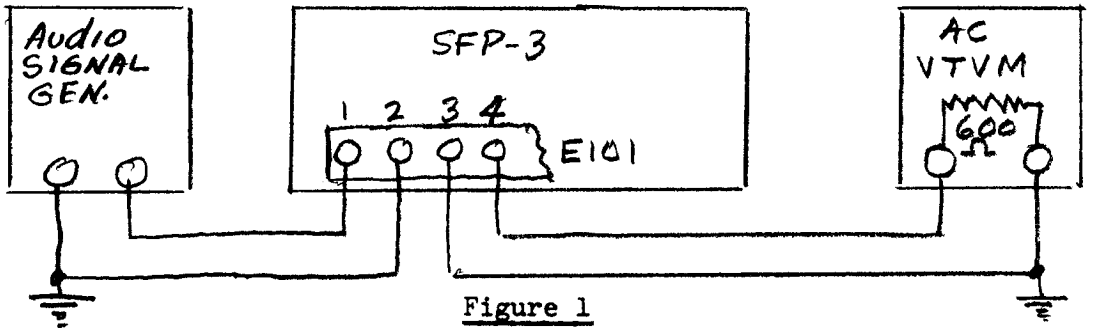

Figure 1

2. For CHANNEL 2, connect test equipment as shown in Figure 2:
   a. 600 ohm load across terminals 8 and 9 of E101.
   b. Ballantine across 600 ohm load and switch meter to 1 volt range. Terminal 8 is the ground side.
   c. Output of Signal Generator to terminals 6 and 7 of E101. Terminal 7 is the ground side.

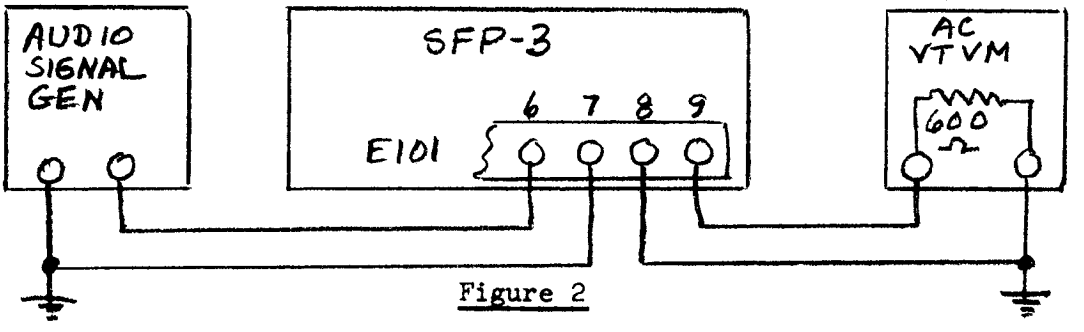

Figure 2

C. TEST PROCEDURE

1. Check unit for mechanical defects.

2. Check unit for cold joints, loose wires.

3. Set CHANNEL 1 switch to FILTER OUT position.

4. Set Signal Generator to 1575 cps, and the gain control for a 1.0 VAC reading on the Ballantine.

5. Set CHANNEL 1 switch to PANEL OUT position. The meter should indicate an open circuit.

6. Set CHANNEL 1 switch to FILTER IN position. Measure and record the drop from the 1.0 VAC reference level in Step 4. This drop should not exceed -7db. Readjust gain control for a reading of 1.0 VAC on the meter.

7. Measure and record the drop from the 1.0 VAC reference level in Step 6, with the Signal Generator set as follows:

   a. 1675 cps, no more than -3db down.

   b. 1475 cps, no more than -3db down.

   c. 1915 cps, at least -40db down.

   d. 1235 cps, at least -40db down.

8. Reset meter to 1.0 VAC range; set CHANNEL 1 switch to FILTER OUT position.

9. Set Signal Generator to 2425 cps, and the gain control for a 1.0 VAC reading on the meter.

10. Set CHANNEL 1 switch to FILTER IN position. Measure and record the drop from the 1.0 VAC reference level in Step 9. This drop should not exceed -7db. Readjust gain control for a reading of 1.0 VAC on the meter.

11. Measure and record the drop from the 1.0 VAC reference level in Step 10 with the Signal Generator set as follows:

    a. 2525 cps, no more than -3db down.

    b. 2325 cps, no more than -3db down.

    c. 2765 cps, at least -40db down.

    d. 2085 cps, at least -40 db down.

C. TEST PROCEDURE - Cont'd

12. Disconnect test set-up from terminals 1, 2, 3, and 4 of E101, and reconnect test set-up according to Section B.2.

13. Repeat Steps 3 to 11 with CHANNEL 2 switch.

TEST DATA SHEET

MFG. NO.: _____

SERIAL NO.: _____

C1. Mechanical Check _____ C2. Wiring Check _____

	CHANNEL 1	CHANNEL 2
C4. FILTER OUT POSITION	_____OK	_____OK
C5. PANEL OUT POSITION	_____OK	_____OK
C6. FILTER IN POSITION insertion loss not more than 7db @ 1575cps.	_____db	_____db
C7a. FILTER IN POSITION 1675 cps not more than 3 db down.	_____db	_____db
C7b. FILTER IN POSITION 1475 cps not more than 3 db down.	_____db	_____db
C7c. FILTER IN POSITION 1915 cps not less than 40 db down.	_____db	_____db
C7d. FILTER IN POSITION 1235 cps not less than 40 db down.	_____db	_____db
C10. FILTER IN POSITION insertion loss not more than 7 db @ 2425 cps.	_____db	_____db
C11a. FILTER IN POSITION 2525 cps not more than 3 db down.	_____db	_____db
C11b. FILTER IN POSITION 2325 cps not more than 3 db down.	_____db	_____db
C11c. FILTER IN POSITION 2765 cps not less than 40 db down.	_____db	_____db
C11d. FILTER IN POSITION 2085 cps not less than 40 db down.	_____db	_____db

TESTER: _____

DATE: _____

REVISION SHEET

THE TECHNICAL MATERIEL CORP.
MAMARONECK NEW YORK

S 1145
LIST NO.

DATE	REV.	SHEET	EMN #	DESCRIPTION SHEET 6 of 6	APP.
9/29/66	ø			ORIGINAL RELEASE FOR PRODUCTION	

TMC FORM MLR-1 2-65—AINS.