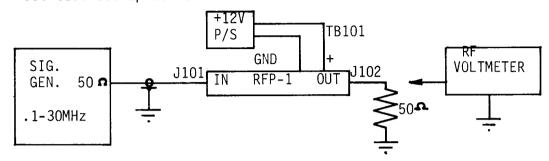
	TMC S	PECIFICA	ATION		NO	. S1356		
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		PRODUCT	ION TEST PROC	EDURE				
		RECEI V	ING INPUT FIL	TFR				
		TM	C MODEL RFP-1	. ,	•			

APPROVED BY S. De Marco

DATE 25 August 1977

Initial Set-Up

1.1 Use test set up as follows:



- 1.2 Apply +12V to RFP-1 unit.
- 2. Alignment 0.1 2MHz.
- 2.1 Set FUNCTION MHz switch to .1 to 2 MHz position.
- 2.2 Set signal generator to 0.1 MHz and apply to input (J101).
- 2.3 Monitoring output (J102) with the RF voltmeter, adjust input level to obtain Odb at output (J102).
- 2.4 Check each frequency as per chart I. Gain should be approximately as indicated. (See Response Curve I)

CHART I (0.1 - 2MHz)

FREQMHz	GAIN -db
.100	· 0 +7
.250 .500	+8.5
.750 1.0	+9 +7.5
1.250 1.5	+7 +7
1.750	+8
2.0	+6

- 3. Alignment 2 3 MHz
- 3.1 Set FUNCTION MHz switch to 2-30 MHz position. (non pad) and set BAND MHz switch to 2-3 MHz.
- 3.2 Set signal generator to 2 MHz.
- 3.3 Adjust TUNE control to 0° (caps fully meshed).
- 3.4 Tune T5 and T10 for maximum.
- 3.5 Set signal generator to 3 MHz and adjust the TUNE control to tune the 3 MHz signal for maximum (Approx 150°).
- 3.6 Adjust C5 for maximum signal at 3 MHz.
- 3.7 Return the TUNE control to 0° and retune the input at 2 MHz (T5 and T10).

TN	IC SPECIFICATI	ON	NO. S-1356
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TITLE:			

3.8 Vary the signal generator above and below the tuned frequency and observe the output swing on the RF voltmeter. There should not be any other peaks (See response curve II).

3.9 Repeat the above response check at 3 MHz to insure that the 2-3 MHz band tracks properly. Check gain measurements with reference to Chart II.

CHART II 2-3 MHz

FREQ MHz	GAIN -db
2.0	+2.5
2.1	+3
2.2	+3
2.3	+3
2.4	+3
2.5	+3
2.6	+2.5
2.7	+3
2.8	+2.
2.9	+1.5
3.0	+2.5

- 3.10 Set FUNCTION MHz switch to 2-30 MHz position with pad and repeat gain measurements. Gain should be attenuated by approximately 10 db.
- 4. Alignment 3-4 MHz
- 4.1 Set FUNCTION MHz switch to 2-30 MHz (non pad) position and set BAND MHz switch to 3-4 MHz.
- 4.2 Set signal generator to 3 MHz.
- 4.3 Adjust TUNE control to 60°.
- 4.4 Tune T4 and T9 for maximum.
- 4.5 Set signal generator to 4 MHz and adjust TUNE control to tune the 4 MHz signal for maximum (approx. 105°).
- 4.6 Adjust C4 for maximum signal at 4 MHz.
- 4.7 Repeat the above tuning sequences. (4.3 4.5)
- 4.8 Vary the signal generator above and below the tuned frequency and observe the output swing on the RF voltmeter. There should not be any other peaks. (See Response Curve III).
- 4.9 Repeat the above response check at 4 MHz to insure that the 3-4 MHz band tracks properly.
- 4.10 Check gain measurements and refer to Chart III.

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CHART III 3-4 MHz

FREQMHz	GAIN -db
3.0 3.1	+3 +3.5
3.2	+3.5
3.3	+3
3.4	+3.5 +3.5
3.5 3.6	+3.5
3.7	+4
3.8	+3.5
3.9	+4.5
4.0	+4.5

- 4.11 Set FUNCTION MHz switch to 2-30 MHz position with pad and repeat gain measurements. Gain should be attenuated by approximately 10 db.
- Alignment 4-9 MHz 5.
- Set FUNCTION MHz switch to 2-30 MHz (non pad) position and set BAND 5.1 MHz switch to 4-9 MHz.
- Set signal generator to 4 MHz. 5.2
- Adjust TUNE control to approximately 45°. 5.3
- Tune T3 and T8 for maximum. 5.4
- Set signal generator to 9 MHz and adjust TUNE control to tune the 5.5 9 MHz signal for maximum (approx. 170°).
- Adjust C3 for maximum signal at 9 MHz. 5.6
- 5.7
- Repeat the above tuning sequences. (5.3 5.5) Vary the signal generator above and below the tuned frequency and 5.8 observe the output swing on the RF voltmeter. There should not be any other peaks. (See response curve IV.)
- Repeat the above response check at 9 MHz to insure that the 4 9 MHz 5.9 band tracks properly. Check gain measurements and refer to Chart IV.

CHART IV 4-9 MHz

FREQMHz	GAIN -db
4.0	+6
4.5	+7
5.0	+ 6
5.5	+5
6.0	+3.5
6.5	+3
7.0	+3
7.5	+3
8.0	+2.5
8.5	+2.5
9.0	+3

TMC FORM SPEC 1

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TITLE:			

5.10 Set FUNCTION MHz switch to 2-30 MHz position with pad and repeat gain measurements. Gain should be attenuated by approximately 10 db.

6. Alignment 9-16 MHz

6.1 Set FUNCTION MHz switch to 2-30 MHz (non pad) position and set BAND MHz switch to 9-16 MHz.

6.2 Set signal generator to 9 MHz.

6.3 Adjust TUNE control to approximately 90°.

6.4 Tune T2 and T7 for maximum.

- 6.5 Set signal generator to 16 MHz and adjust TUNE control to tune the 16 MHz signal for maximum (approx. 170°).
- 6.6 Adjust C2 for maximum signal at 16 MHz.

6.7 Repeat the above tuning sequences.

6.8 Vary the signal generator above and below the tuned frequency and observe the output swing on the RF voltmeter. There should not be any other peaks. (See response curve V).

6.9 Repeat the above response check at 16 MHz to insure that the 9-16 MHz band tracks properly. Check gain measurements and refer to Chart V.

CHART V 9-16 MHz

FREQMHz	GAIN -db
9.0	+5
10.0	+6.5
11.0	+7
12.0	+7.5
13.0	+8
14.0	+7
15.0	+7
16.0	+7

6.10 Set FUNCTION MHz switch to 2-30 MHz position with pad and repeat gain measurements. Gain should be attenuated by approximately 10 db.

7. Alignment 16-30 MHz

7.1 Set FUNCTION MHz switch to 16 - 30 MHz (non pad) position and set BAND MHz switch to 16 - 30 MHz.

7.2 Set signal generator to 16 MHz.

7.3 Adjust TUNE control to approximately 0°.

7.4 Tune T1 and T6 for maximum.

- 7.5 Set signal generator to 30 MHz and adjust TUNE control to tune the 30 MHz signal for maximum (approx. 145°).
- 7.6 Adjust C1 for maximum signal at 30 MHz.

7.7 Repeat the above tuning sequences.

- 7.8 Vary the signal generator above and below the tuned frequency and observe the output swing on the RF voltmeter. There should not be any other peaks. (See Response Curve VI).
- 7.9 Repeat the above response check at 30 MHz to insure that the 16 30 MHz band tracks properly. Check gain measurements and refer to Chart VI.

TMC FORM SPEC 1

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TITLE:			

CHART VI 16-30 MHz

FREQMHz	GAIN -db
16.0	+5
17.0	+5.5
18.0	+5
19.0	+4.5
20.0	+5
21.0	+5
22.0	+5
23.0	+4.5
24.0	+4.5
25.0	+5
26.0	+3
27.0	+2.5
28.0	+2.5
29.0	+2
30.0	+1

- 7.10 Set FUNCTION MHz switch to 2-30 MHz position with pad and repeat gain measurements. Gain should be attenuated by approximately 10 db.
- 8. Response Curves

I	0.1-2 MHz
ΙΙ	2-3 MHz
III	3-4 MHz
ΙV	4-9 MHz
٧	9-16 MHz
VI	16-30 MHz

*** END OF SPECIFICATION***

TM	C SPECIFICA	TION	NO. S-1356	;
REV:				
COMPILED:	CHECKED:	APPD: DATA SHEET	SHEET	
TITLE:	T	MC RFP-1		
	RECEIVER I	RFP-1 INPUT FILTER ATA SHEET		
	ALIGNMENT	GAIN	RESPONSE	
.1-2 MHz				
2-3 MHz				
3-4 MHz				
4-9 M Hz				
9-16 M Hz				
16-30 M Hz				
10 db PAD				
BY PASS				
SERIAL NO.			DATE	
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TMC FORM SPEC 1

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7 X TO INCHES
KEUFFEL & ESSER CO. 2 Q N 04-2 2 g 0

