

TMC SPECIFICATION

NO. S 1015

REV: 0

COMPILED: RRH

CHECKED:

APPD: *M. Key*

SHEET 1 OF 5

TITLE:

9/22/05

Typed by mtp 9/20/65

TEST SPECIFICATION

for

HLC-3

TMC SPECIFICATION

NO. S 1015

REV: 0

COMPILED: RRH

CHECKED:

APPD:

SHEET 2 OF 5

TITLE: TEST SPECIFICATION - HLC-3

Typed by mtp 9/20/65

I. EQUIPMENT REQUIRED

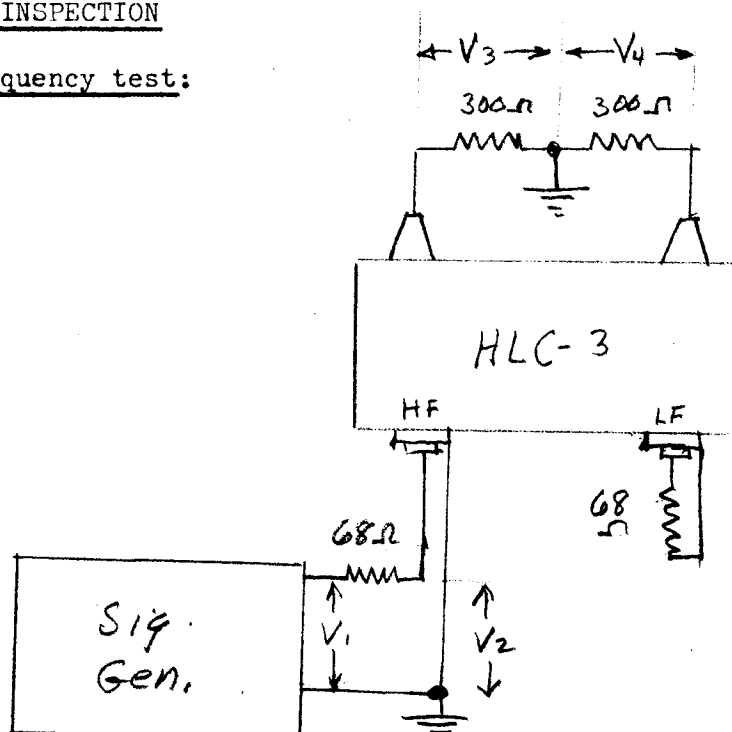
- 1 VTVM (HP 410B or equivalent).
- 1 RF Generator (Measurements Corp. 82 or equivalent).
- 2 300 ohms, 1/2 watt, 5% resistor.
- 2 68 ohms, 1/2 watt, 5% resistor.
- 2 750 ohms, 1/2 watt, 5% resistor.

II. MECHANICAL INSPECTION

- A. Inspect for complete assembly.
- B. Insure that cover and gasket form a watertight seal and that connector assemblies (if supplied) also fit tightly to the case.

III. ELECTRICAL INSPECTION

A. High frequency test:



Connect equipment as indicated, with a 68 ohm load on LF connector. Adjust signal generator for 1 volt at 2 mcs and take measurements at V_2 , V_3 and V_4 . Ratio

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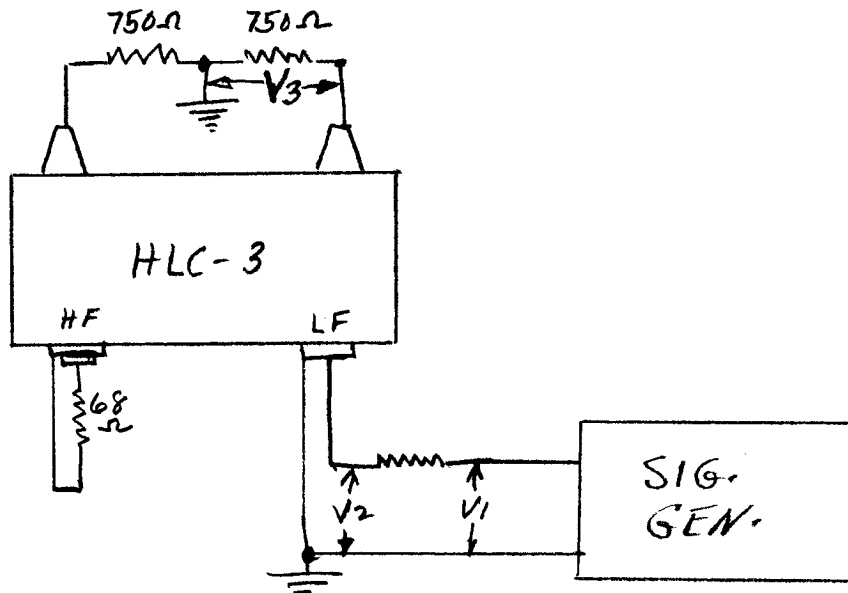
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III. ELECTRICAL INSPECTION - Cont'd

of V_2 to V_3 plus V_4 should be between 2.7 and 3.3. Repeat for 4, 8, 16 and 30 mcs and record results on Test Data Sheet.

B. Low Frequency Test:



Connect equipment as indicated, with 68 ohm load on HF connector. Adjust signal generator for 1 volt, 15 kcs at V_1 and measure V_2 and V_3 . Ratio of V_2 to V_3 should be not less than 2 nor more than 2.6. Repeat for 25, 50, 100, 150, 250, 500, 1000 and 2000 kcs and record on Test Data Sheet.

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TEST DATA SHEET

HLC-3

MFG. NO.: _____

SERIAL NO.: _____

II. MECHANICAL INSPECTION

A. Assembly----- Complete

B. Water Tightness----- OK

III. ELECTRICAL INSPECTION

A. High Frequency Test:

FREQUENCY	RF VOLTS				RATIO* $\frac{V_3 + V_4}{V_2}$
	V ₁	V ₂	V ₃	V ₄	
2 MCS	1.0				
4 MCS	1.0				
6 MCS	1.0				
8 MCS	1.0				
16 MCS	1.0				
30 MCS	1.0				

* Should be not less than 2.7 nor more than 3.3.

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TEST DATA SHEET

HLC-3

III. ELECTRICAL INSPECTION - Cont'd

B. Low Frequency Test:

FREQUENCY	RF VOLTS			RATIO* $\frac{V_3}{V_2}$
	V_1	V_2	V_3	
15 KC	1.0			
25 KC	1.0			
50 KC	1.0			
100 KC	1.0			
150 KC	1.0			
250 KC	1.0			
500 KC	1.0			
1000 KC	1.0			
2000 KC	1.0			

* Ratio should be not less than 2 nor more than 2.6.

