

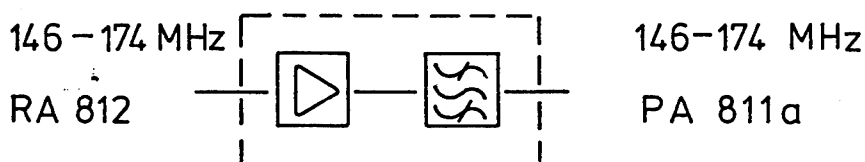
1. Scope.

This specification covers the description and test of the transmitter buffer RA 811 which is a subunit in the FS 800.

2. Description.2.1 Functional.

RA 811 is a transmitter buffer amplifier in a thickfilm plug-in micro module.

It amplifies the transmitter signal from RA 812 to PA 811a from 0 dBm to 13 dBm in the frequency range 146 - 174 MHz.

Block diagram of RA 811:2.2. Circuit.

The transmitter buffer stage consists of a tuned LC collector circuit, which increases the selectivity and the amplification in the frequency range 146 - 174 MHz. The amplifier is temperature compensated. It makes the amplifications temperature independent in the temperature range - 30 to 60°C.

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THIRD ANGLE PROJECTION				REVISIONS		FIRST ANGLE PROJECTION		SI-METRIC		PRINTS TO
APPV	DATE	TITLE				FIRST MADE FOR				
		TEST SPECIFICATION				RA 811				
		MADE BY KAJ 80 Jun. 18.				F.C.F.O. 19M905117				
		ISSUED H6 80 OCT 30				19J706487				
						GENERAL ELECTRIC		19J706487		
						Storno		CONT ON SHEET 3 SH NO. 2		

3. Specifications.3.1 Interface.

Power supply	7.5 V $\pm$ 0.15V ✓
Current consumption	13 - 18 mA ✓
Input	
Frequency range	146 - 174 MHz.
Input level	0 dBm $\pm$ 1 dB.
Input impedance	50 $\Omega$ .
Output	
Frequency range	146 - 174 MHz.
Output level	13 dBm $\pm$ 1 dB.
Output impedance	50 $\Omega$ .

3.2. Mechanical.

In accordance with the 800 build standard for hybrid thickfilm.

Substrate size	19.0 $\times$ 14.6 mm <sup>2</sup> .
Modular package	21.0 $\times$ 15.8 $\times$ 7 mm <sup>3</sup> .

3.3. Environmental.

Temperature range	- 30°C to + 60°C.
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4. Applicable drawings.

Part list	19M905117
Circuit diagram	19J706366
Component placing	} 19M905117P1
Assembly drawing	

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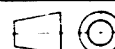
REV 1. AN 306. 80. Dec. 10

## REVISIONS

THIRD ANGLE PROJECTION



FIRST ANGLE PROJECTION



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## TEST SPECIFICATION

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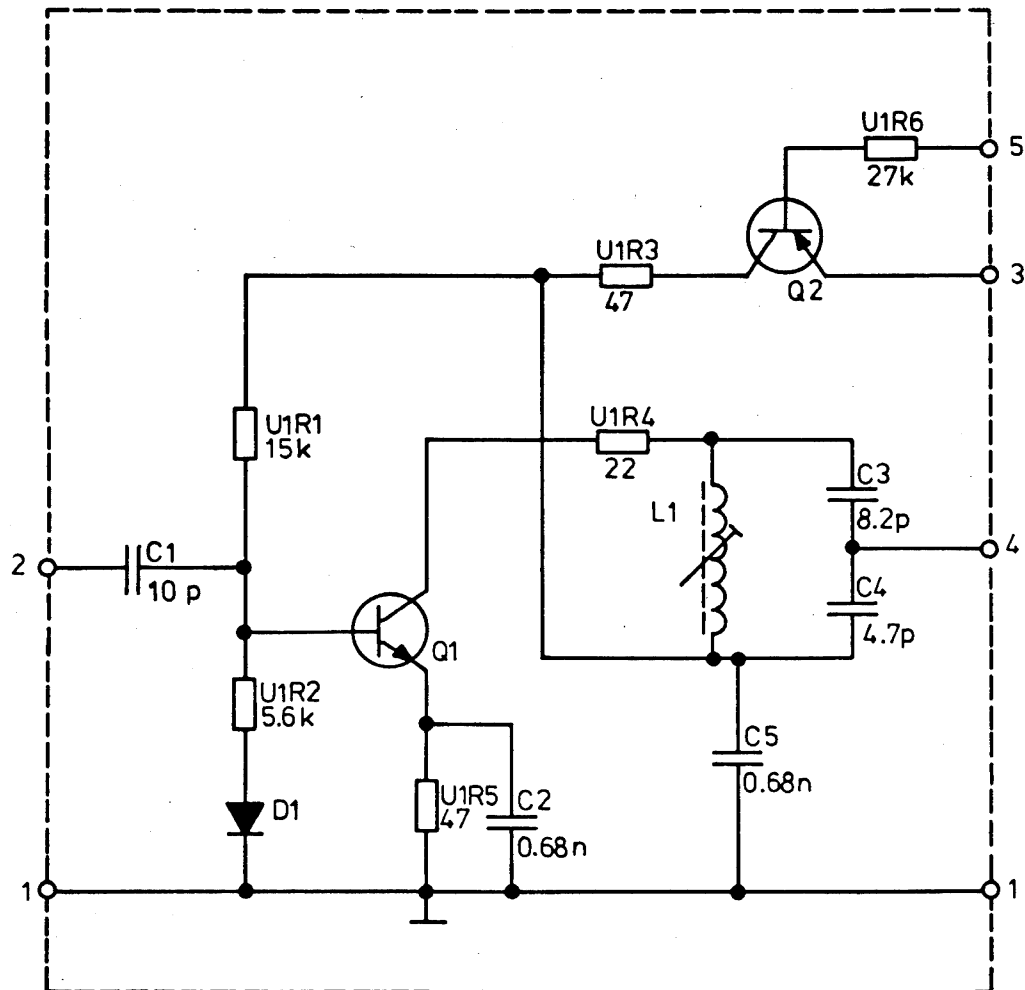
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REVISIONS

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DIAGRAM

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