

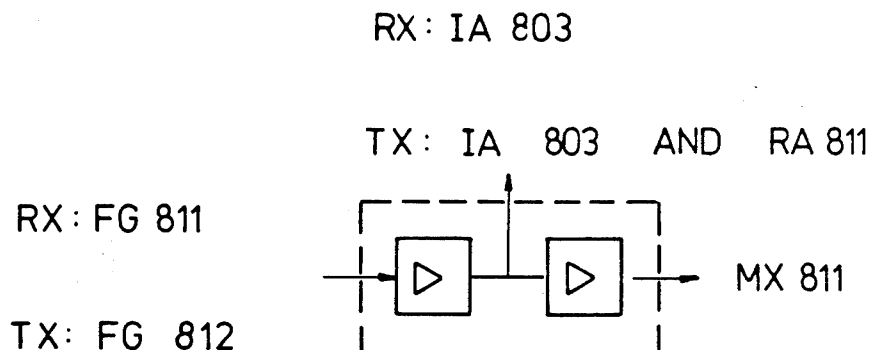
1. Scope.

This specification covers the description and test of the VCO buffer amplifier RA 812, which is a sub unit in the FS 800.

2. Descriptions.2.1 Functional.

RA 812 is a thick film micromodule. It is a wide band buffer amplifier, which buffers the reciever VCO during recieve and the transmitter VCO during transmit.

Block diagram of RA 812:



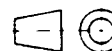
L 30

REVISIONS

THIRD ANGLE PROJECTION



FIRST ANGLE PROJECTION



SI-METRIC

PRINTS TO

APPV	DATE	TITLE	FIRST MADE FOR
M6	80 OCT 30	TEST SPECIFICATION	RA 812
		MADE BY KAJ 80 Jun. 18	F.C.F.O. 19M905116
		ISSUED 1980 CXT. 3.1	19J706483
		GENERAL ELECTRIC Storno	CONT ON SHEET 3 SH NO 2

2.2. Circuit.

The circuit serves a dual purpose. The input stage buffers the output from the VCO, (FG 81X) and provides the injection signal for the receiver during receive, and for the transmitter during transmit.

Furthermore part of the signal is fed to the isolation amplifier. The first stage of the isolating amplifier is contained in this module.

The temperature compensated input stage sets the current consumption of the whole amplifier including the last stages of the isolation amplifier contained in MX 811.

The module will only function properly when connected to MX 811.

3. Specifications.3.1. Interface. (through MX 811).

Power supply Is obtained from MX 811.

Current consumption See spec. for MX 811.

Input RX/TX

Frequency range 120 - 180 MHz.

Input level 0 dBm \pm 1dB.

Input impedance 50 Ω .

Output RX/TX

Frequency range 120 - 180 MHz.

Output level - 1 dBm \pm 1 dB.

Output impedance 50 Ω .

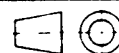
L 30

REVISIONS

THIRD ANGLE PROJECTION



FIRST ANGLE PROJECTION



SI-METRIC

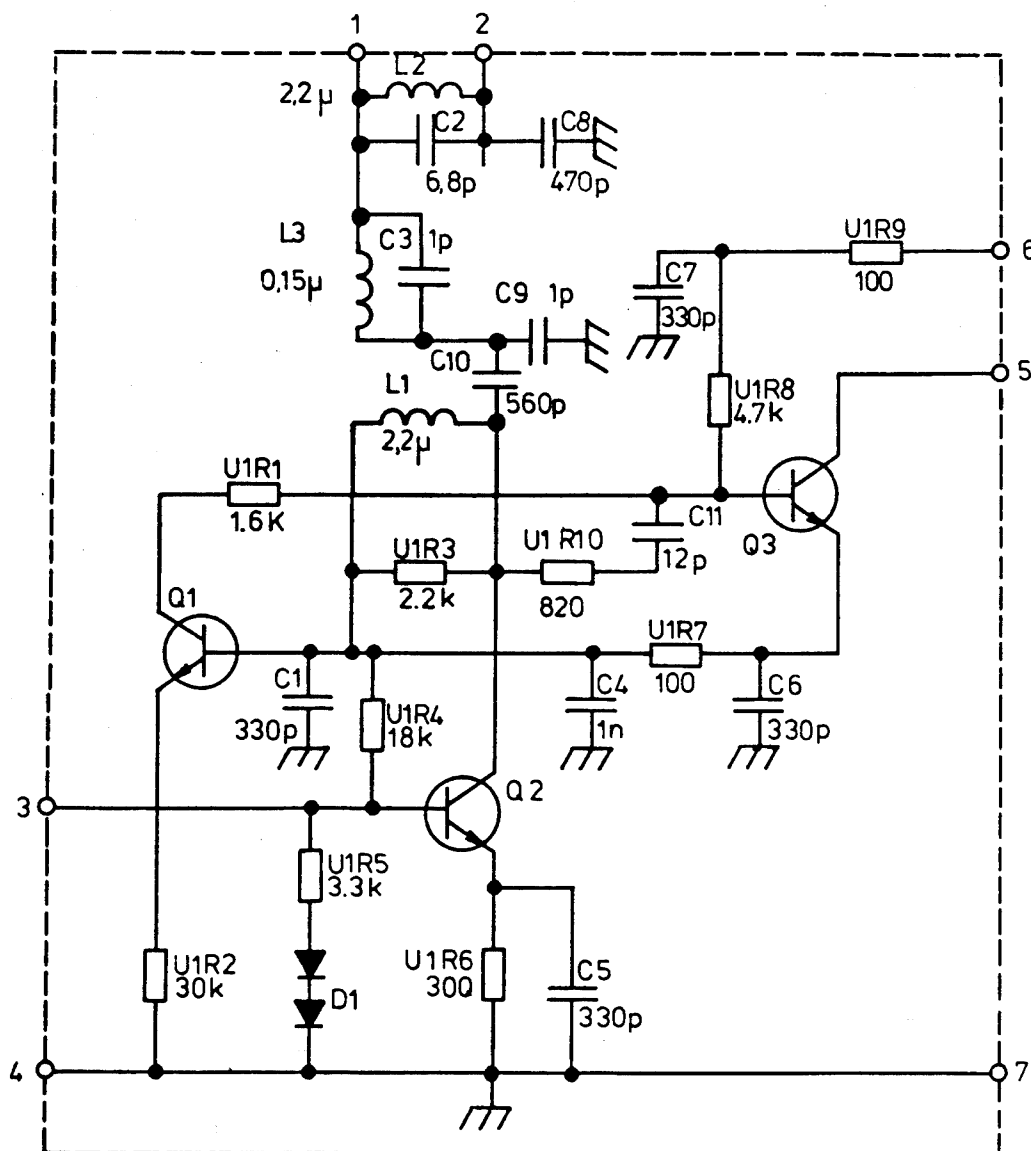
PRINTS TO

APPV	DATE	TITLE		FIRST MADE FOR	
H &	80 OCT 30	TEST SPECIFICATION		RA 812	
		MADE BY		F.C.F.O. 19M905116	
		KAJ 80 Jun. 18.		19J706483	
		ISSUED		CONT ON SHEET 4 SH NO 3	
		1980 OCT. 31			
		GENERAL ELECTRIC			
		Storno			

19J706365

CONT ON SHEET F

SH NO 1



AN 444 81.APR. 3 OHN

REVISIONS

THIRD ANGLE PROJECTION



FIRST ANGLE PROJECTION



SI-METRIC

PRINTS TO

APPV

DATE

TITLE

DIAGRAM

FIRST MADE FOR RA 812

F.C.F.O 19M905116

M6

80

OCT 30

MADE BY

MG/IJA 80 MAY 05

ISSUED

1980 CXT. 31

GENERAL ELECTRIC

Storno

19J706365

CONT ON SHEET F

SH NO 1