

RX1 Modulated Input

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Introduction

It has been quite some number of years since I dealt with Modulators and Receivers, so I did struggle a little with this recently, these are some notes of the values I used, just to get a Mod/Demod setup going.

Hardware Connections

See below for the connection method between the AVP and the RX1.



The Monitor F-Type output of the AVP is connected directly to the RF input of the RX1 (RX4 is on the left). There is no up-converter or attenuator in use.

AVP Output Parameters

Below is the output settings I used on the AVP Modulator.

Satellite Modulator

Output Parameters Modulation Parameters Input Parameters Carrier ID

RF Carrier ID State

On

Output Select

IF

L-Band

Output State

On (Nominal Power)

On (Reduced Power)

Off

Output Power-up State

On (Reduced Power)

Off

Last State

L-Band Output

Frequency Input Mode

L-Band Frequency

Uplink Frequency

L-Band Frequency

1070

MHz [950 - 2150]

Reduced L-Band Line-up Power

-5

dBm [-40 - 5]

Nominal L-Band Power

-10

dBm [-40 - 5]

L-Band Spectrum Sense

Normal

Inverted

L-Band Tilt

0

dB/MHz [-0.04 - 0.04]

L-Band Up-converter Frequency

2500

MHz [2500 - 100000]

Upconverter Power

Off

15V

24V

Upconverter Reference

Off

Output Parameters

RF Carrier ID State On (don't confuse this with Modulation on)

Output Select L-Band

Output State On Reduced Power (we don't want to overload the RX1 input)

Output Power-up State (Last State)

L-Band Output

Frequency Input Mode L-Band Frequency

L-Band Frequency 1070 MHz

Reduced L-Band Line-up Power -5

Nominal L-Band Power -10

L-Band Spectrum Sense Inverted

L-Band Tilt 0

L-Band Up-converter Frequency 2500 MHz

Upconverter Power Off

Upconverter Reference Off

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