

# 2 – 3 GHZ DOWN CONVERTER

Test Equipment Depot - 800.517.8431 - 99 Washington Street Melrose, MA 02176

TestEquipmentDepot.com

---

## CV-223

- 0 MI1527 -



# USER'S MANUAL

## CV-223



## INTRODUCTION

The **CV-223** is a radio frequency down converter for the 2020 to 3000 MHz frequency range. This band which is 1000 MHz wide is down converted to the frequency range from 20 to 1000 MHz so that it can be viewed and measured using a spectrum analyser.

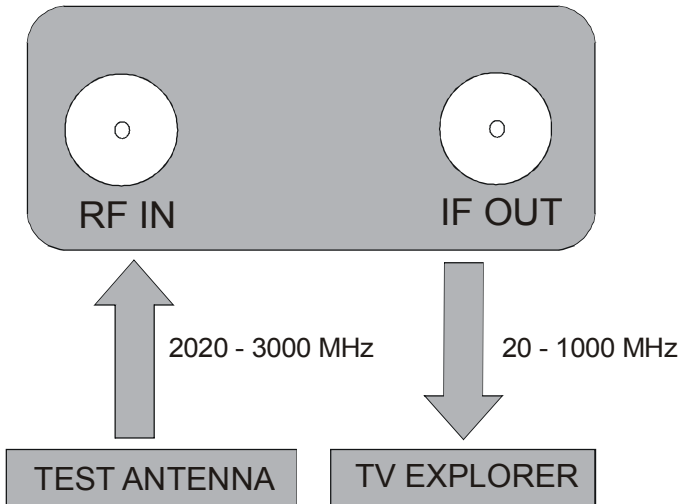
It is an active device and it must be supplied from the spectrum analyser via the LNB power supply.

The **CV-223** down converter can be used together with PROLINK-2+, PROLINK-3/3C *Premium*, PROLINK-4/4C *Premium*, TV EXPLORER II / II+, TV EXPLORER *HD* / *HD LE* / *HD+* or *HD RANGER* / + spectrum analysers. Possible applications cover wireless point to point link alignment or measurement of TV COFDM radio links.

## SPECIFICATIONS

<b>RF input Range</b>	2020 – 3000 MHz
<b>RF input connector</b>	N type
<b>RF output Range</b>	20 – 1000 MHz
<b>IF output connector</b>	N type
<b>LO Frequency</b>	2000 MHz
<b>Gain</b>	30 dB typ
<b>Supply voltage</b>	+9...+15 VDC via de IF output connector
<b>Current consumption</b>	260 mA
<b>Dimensions</b>	82 x 64 x 22 mm
<b>Weight</b>	222 g.
<b>Included accessories</b>	1 x BNC / BNC coaxial cable (CC-024). 2 x "N" M / "BNC" F adapter (AD-059)

## USING THE DOWN CONVERTER



First of all the IF output should be connected to the spectrum analyser input using the supplied coaxial cable and adapters. The signal source or the test antenna should then be connected to the down converter RF input to finally activate the spectrum analyser power supply. If the **CV-223** is used with PROLINK-2+, PROLINK-3/3C Premium, PROLINK-4/4C Premium, TV EXPLORER II / II+, TV EXPLORER HD / HD LE / HD+ or HD RANGER / + spectrum analysers the drain indication on the analyser will confirm that the down converter is active.

On the spectrum analyser screen there will always be a frequency range which is actually 1000 MHz above the tuned frequency.



