

10 GHz 3<sup>rd</sup> channel option for HP 53131A, HP 53132A and HP 53181A.

## Features

- 0.1 to 10 GHz operation window.
- High sensitivity.
- Input protection (27 dBm max).
- AC coupled (max 35 V to GND).

## Description

The Cojotech HPO-100 is a replacement kit for the original 3<sup>rd</sup> channel option, for the HP/Agilent 53131A, 53132A and 53181A, which have been discontinued.

This option adds 0.1 to 10 GHz counting ability to counters which were not fitted with a 3<sup>rd</sup> channel option from the factory, or had the original 3 GHz option installed.

Please check the [selection guide](#) to decide which option is right for you.

It can be configured with either a high quality SMA connector ([SMA-BBLK-2](#)), an N-type connector, or a 12 GHz BNC connector.

## Package contents

- HPO-100 board.
- Based on your choice, an SMA, an N-type or a 12 GHz BNC connector.
- IDC cable.
- Mounting screws.

## Warranty

This product benefits from a 2-year warranty against defects in materials and workmanship.

# Absolute Maximums

Parameter	Ratings
Input Power	+27 dBm
DC Voltage	±35 V

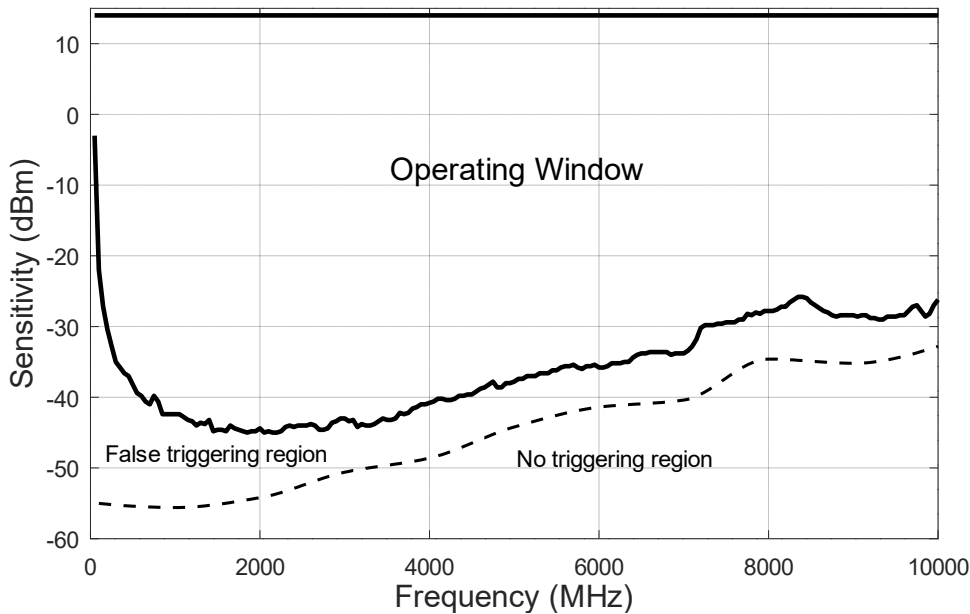
# Sensitivity

The required amplitude for a reading with an accuracy of 0.1 ppm.

Correct operation is guaranteed up to +14 dBm.

Frequency (MHz)	Typical (dBm)	Worst (dBm)
100	-22	-19
200	-30	-27
500	-38	-35
1,000	-42	-39
2,000	-44	-41
3,000	-43	-39
4,000	-40	-38
5,000	-37	-35
6,000	-35	-33
7,000	-33	-30
8,000	-27	-24
9,000	-28	-26
10,000	-26	-23

**Sensitivity vs Frequency**



# Mechanical properties

## SMA ([SMA-BBLK-2](#))

Description	Material	Finish
Jacket	Stainless steel	
Body	Stainless steel	
Contact	Beryllium copper	Gold plated
Dielectric	PTFE	

## N-type (option E)

Description	Material	Finish
Body	Brass	Nickel plated
Contact	Beryllium copper	Gold plated
Dielectric	PTFE	

## BNC

Description	Material	Finish
Body	Brass	Nickel plated
Contact	Beryllium copper	Gold plated
Dielectric	PTFE	

### Notes:

- 1). Unless otherwise stated, all specifications are nominal.
- 2). The information contained in this document is accurate to the best of our knowledge. We reserve the right to update it, with new information or corrections, without notice.