

3 GHz 3rd channel option for HP 53131A, HP 53132A and HP 53181A.

Features

- Improved sensitivity.
- Input protection (27 dBm max).
- Can be used past 3 GHz.
- VSWR < 2.5.
- AC coupled (max 35 V to GND).

Description

The Cojotech HPO-030-S is a replacement kit for the original 3rd channel option, for the HP/Agilent 53131A, 53132A and 53181A, which have been discontinued.

It offers improved sensitivity compared to the original, while providing similar input characteristics, which makes it a perfect drop-in replacement.

Compared to the HPO-030-N variant, the HPO-030-S provides higher sensitivity, but because of that it continuously triggers the counter, which might be undesirable.

Package contents

- HPO-030 board.
- Panel mount BNC to SMA connector cable.
- 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 (5 Vrms)
DC Voltage	± 35 V

VSWR

Less than 2.5:1, between 100 MHz and 3 GHz.

Sensitivity

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

HPO-030-S

Correct operation tested up to +14 dBm, limited by signal generator.

Frequency (MHz)	Typical (dBm)	Worst (dBm)
50	-26	-23
100	-36	-33
200	-43	-41
500	-49	-47
1,000	-53	-50
1,500	-53	-50
2,000	-53	-50
2,500	-60	-54
3,000	-44	-39

Mechanical properties of the connectors

BNC-1

Description	Material	Finish
Body	Brass	Nickel plated
Contact	Brass	
Dielectric	PTFE	

BNC-2 (SMA-M-BNC-BF-F405-20)

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.