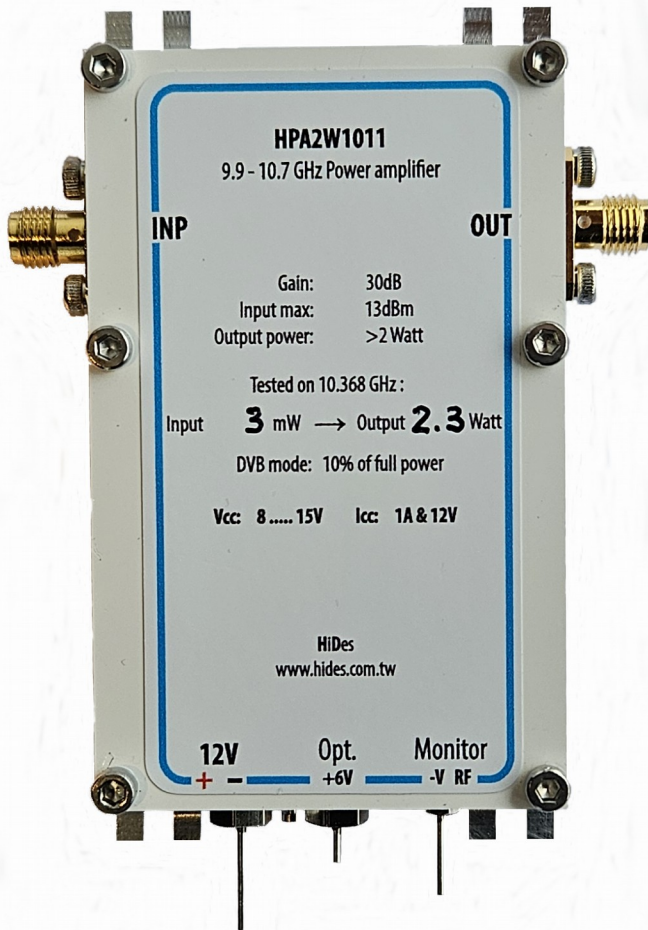


10 GHz Power Amplifier



Frequency range: 9900 10700 MHz

Gain: 30 dB

Inp: 3mW **Out:** 2.3 Watt

Max. RF input power : 20mW

Max. RF output power : 2.4 Watt

Bandwidth: very wide , 9GHz ~ 12GHz

RFmonitor output : negative 0.....2V

Size: 47 x 87 x 17 mm aluminum housing

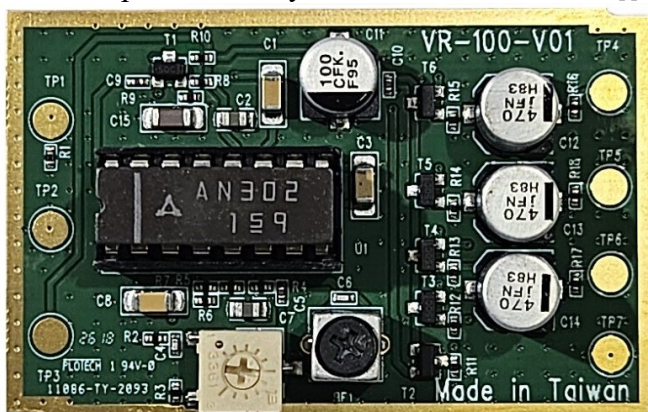
IN - OUT : SMA female

Operating voltage: 8.....15 Volt Typ. 12V

Electricity consumption : max. 1 Amper

Video level adjuster and 3-way distributor

For PAL system , CVBS Video source, regardless of the input video level between $0.2V_{pp}$ and $2V_{pp}$ the output will always be the standardized $1V_{pp}$



IN-OUT : 75 ohm

IN : 0,2V.....3V_{pp}

OUT : 1V_{pp} x3

Bandwidth: 10Hz.....8MHz

Enhanced video frequency range: 2,8MHz.....4,8MHz

Vcc : 10.....12V Icc : 110mA

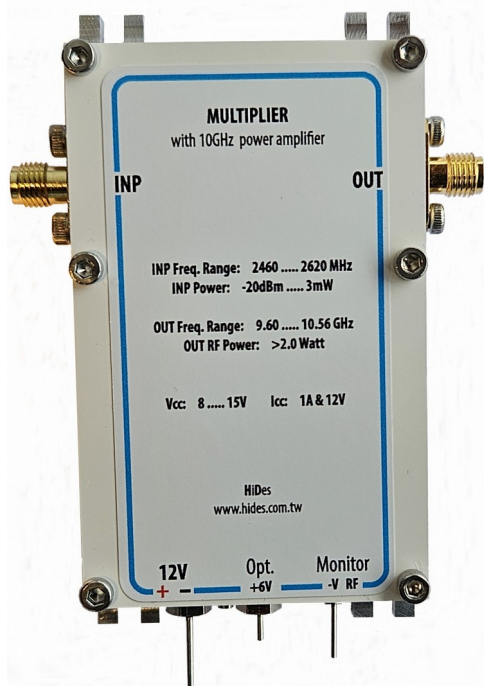
PCB size : 55 x 35mm

Available as:

1. assembled and calibrated PCB
2. assembled and calibrated PCB without AN302
3. fully installed in the housing (RCA connectors) and calibrated

Multiplier with 10GHz amplifier

Use purpose: 10GHz signal source, beacon transmitter, CW transmitter, FM transmitter, FMTV transmitter, etc.



This is 98% the same design and circuit diagram as 10GHz PA , only one additional Hittite multiplier IC has been added.

Input : 2460.....2630MHz (x4) -20dBm.....3mW 50ohm

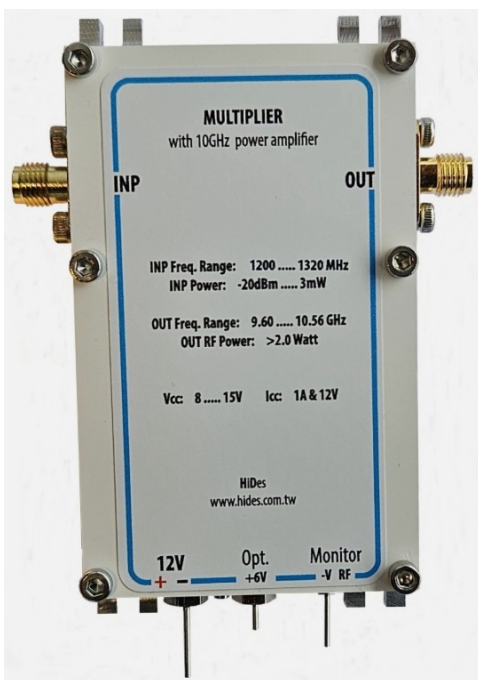
No matter what RF power you give to input (-20dBm..... +5dBm) , at 10GHz the output is always over 2W

Output : 9,60 GHz 10,56 GHz > 2.0 Watt output power in CW mode & 50ohm

"Conversion gain" : >50dB

Monitor RF pin: negative , -1.75V & 2.37 Watt RF output

Vcc & Icc : 8.....15 Volt 1 Amper & 12V



Input : 1200.....1320MHz (x8) -20dBm.....3mW 50ohm

No matter what RF power you give to input (-20dBm..... +5dBm) , at 10GHz the output is always over 2W

Output : 9,60 GHz 10,56 GHz > 2.0 Watt output power in CW mode & 50ohm

"Conversion gain" : >50dB

Monitor RFout pin: negative , -1.75V & 2.37 Watt RF output

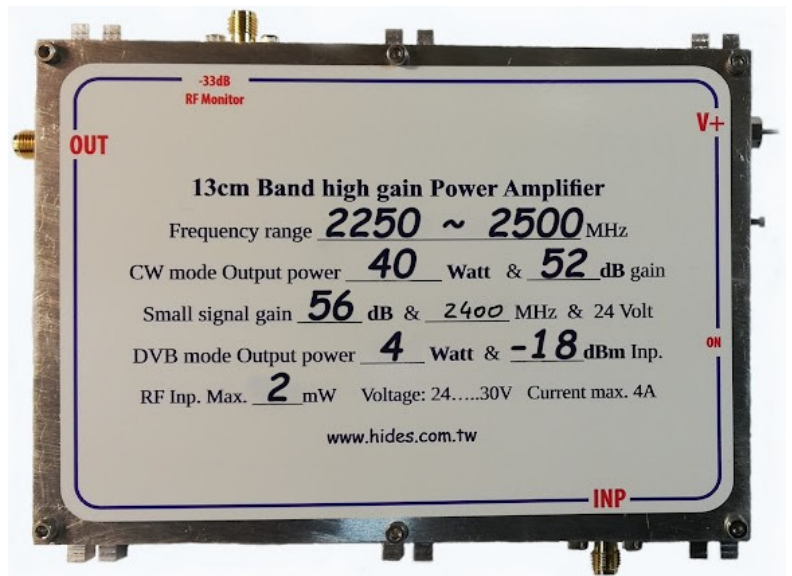
Vcc & Icc : 8.....15 Volt 1 Amper & 12V

HPA2225

High power amplifier Pre-order only !!!

Features:

Frequency range: 2250.....2500 MHz
Gain: over 50 dB
Small signal gain: over 53 dB
Output Power CWmode : up to 40 Watt
Bandwidth -3dB : 300 MHz
For Signal mode: all mode
Operating voltage: 24.....30V



Multi use 13cm band allmode UP converter

BU500

Specification:

RF - Inp : 28MHz ~ 1300MHz

RF - Inp : 0.....200 mW

Local Oscillator: Default 1967.5MHz

(Configurable by customer in 1KHz step from 1050MHz to 2700MHz – by USB port)

Local Oscillator TK stability 2.5ppm

(external 10MHz GPS input is available)

RF - Output: 2365~2500MHz

Output power: >1700mW

Vcc: 12V (9V.....16V) 1 Amper

Size: 55 x 55 x 55mm (with Heatsink)

Suitable for all operating modes, as hardware it was designed for DVB mode.

With good output filters suitable for signals at the input port down to 28MHz.



Order : <https://www.ebay.com/str/HiDes168>

or directly : calvin@hides.com.tw

Technical support: 9a6rzn@gmail.com

BU500

13cm band DVB UP converter

Specification:

RF - Inp : 28MHz ~ 1300Mhz

RF - Inp : -23dBm -10dBm

Local Oscillator: Default 1967.5MHz

(Configurable by customer in 1KHz step from 1050MHz to 2700MHz – by USB port)

Local Oscillator TK stability 2.5ppm

(external 10MHz GPS input is available)

RF - Output: 2365~2500MHz

Output power: up to 400mW

Vcc: 12V (9V.....16V) 1 Amper

Size: 55 x 55 x 55mm (with Heatsink)

Perfectly suited for Adalm Pluto.

With good output filters suitable for signals at the IF input port down to 28MHz.



3 LNC 70 Down converter

RF Input: 9,8 Ghz.....10,7 GHz

Conversion gain: ~29dB

LO freq.: 10,0575GHz default !!

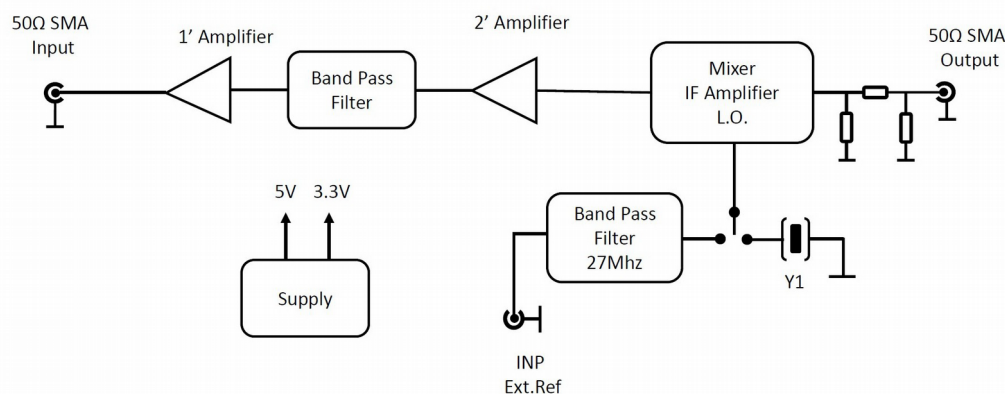
IF Output: 300 Mhz.....2000 MHz

(Opt. extern LO input: 25,400.....29,800MHz ...for LO Freq. 9,1722.....10,7611 GHz)

Vcc: 12....14 Volt **Icc:** 150mA

Description: oe7dbh.blogspot.com

Two versions available ! Please ask for details.



10 GHz all mode power amplifier

Frequency range: 9600 10800 MHz

Gain: 30 dB

Inp: 3mW

Out: 2.5 Watt

DVB RF out: up to 300mW

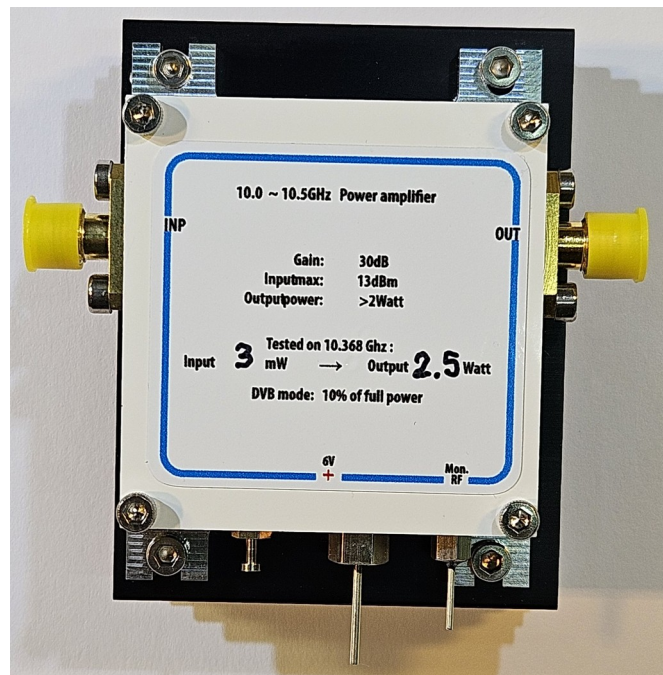
Max. RF input power : 20mW

RFmonitor output : negative 0.....2V

Size: 65 x 65 x 33 mm (with heatsink)

IN – OUT : SMA female

Operating voltage: 6 Volt



Various versions in stock , see OE7DBH blog.....

<https://oe7dbh.blogspot.com/2025/08/100-105-ghz-power-amplifier-with-hmc952a.html>

Broadband 5.4 GHz 11.3 GHz Amplifier



Vcc: 12V (9....15V) Icc: 300mA max.

IN – OUT : SMA female

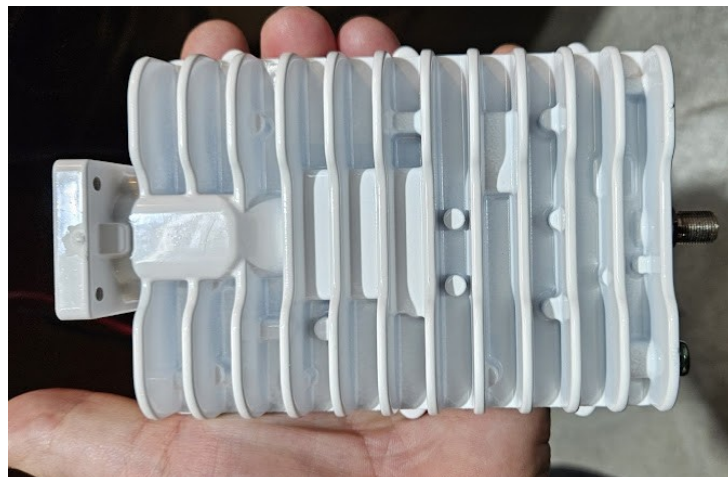
Freq. Range: 5,4 GHz 11,3 GHz

Gain : >20dB

Max. RF Out : 410mW

Test report:	Frequency	Input	Gain	Output
	10,4GHz	0,23mW	26,4dB	100mW
	5,8GHz	0,20mW	26,8dB	100mW

13 GHz professional TX UP converter



Operating voltage and current: 10,5V.....28V 600mA.....300mA

Required values at the "Sat F" connector for normal operation....

- ♦ 12V 520mA (example)
- ♦ IF Signal 950.....1550MHz 0,5mW.....4mW (example: 1100MHz 1mW)

Output Signal: 12,7 GHz.....13,4 GHz (-3dB)
 at 12,9GHz 1,25 Watt RF output CW mode in DVB mode: up to 150mW Rf output

Output connector: WR75

VCTCXO for QO-100 LNB with 27MHz Quartz

TC 1ppm

Example: RX Freq. 10,489.500 – 10,490.000 GHz

LO multiplication: 361,111111 LO Freq. - 10,057.000 GHz

LNB IF Output: 432.500 - 433.000 MHz



More information:

<https://oe7dbh.blogspot.com/2023/11/vctcxo-for-qo-100-lnb-with-27mhz.html>