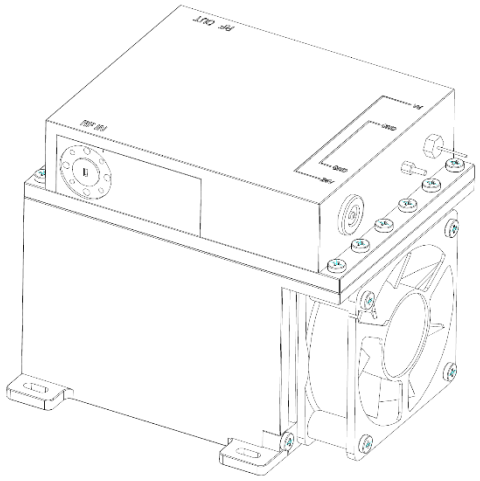
AT-PA-75110-2526GND-LCBT

75-110GHz Power Amplifier, Psat=+26dBm

Full W Band Power Amplifier, WR-10
High Gain=25dB , Psat=+26dBm

2023-6-20



Product Overview

AT-PA-75110-2526GND-LCBT is 25dB high gain power amplifier with +26dBm output power in the frequency of 75-110GHz.

LCBT is for Low Cost, Compact, Bench-top, which means this module can be used with AC Power supply (with AC/DC Adapter) .

More information, please visit www.atmicrowave.com

Advantages

- ✓ Frequency: 75-110GHz
- ✓ Psat:+26dBm
- ✓ Small signal gain: 25dB
- ✓ Single Power Supply

Application

- ✓ W band Imaging
- ✓ FOD (Foreigner Objects Debris)
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

Parameter	Min	Typical	Max
Frequency		75-110GHz	
Small Signal Gain		25dB	
Psat	+24dBm	+26dBm	
AC Power Supply	+90V	+220V	+240V
Power Consumption		27W	
DC Power Supply Option	+22V	+24V/1.2A	+28V
Input Return Loss		-8dB	
Output Return Loss		-8dB	
Spec Temp		25C	

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Mechanical Information

Item	Description
Input Port	WR-10
Output Port	WR-10
AC Power Supply	2.1mm DC Jack, AC-DC Adapter included.
DC Supply Option	PIN
Internal Module Case Material	Copper
Internal Module Finish	Gold Plated
-LCBT Case Material	Aluminum
-LCBT Case Finish	Painted
Weight	1.5KG
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
AC Supply	+260V
DC Supply Option	+28V
RF Input Power	+15dBm
Operating Temperature	0 to +50C
Storage Temperature	-45 to +85C

Notes:

1. Datasheet may be changed according to update of MMIC, Raw materials , process, and so on.
2. This data is only for reference, not for guaranteed specifications.
3. Please contact AT Microwave team to make sure you have the most current data.

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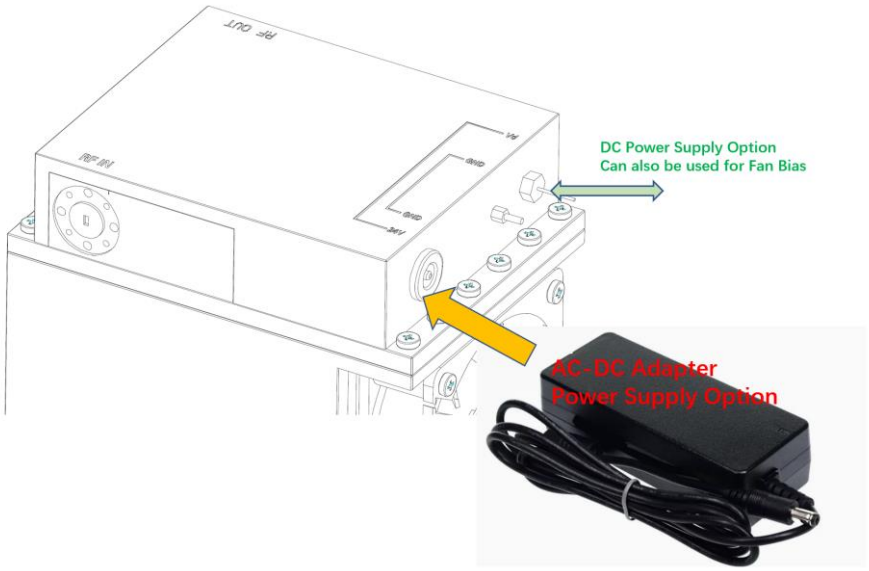
LCBT Option-Power Supply Guide.

1. AC Power supply with AC/DC Adapter. PIN VDD Output=24V, can be used for Fan bias.
2. DC Power Supply from PIN VDD.
3. AT Microwave provide AC/DC apdater, hearsink and Fan in default.



Caution:

1. 2.1mm DC Jack power supply is connected with DC-VDD internally.
2. DC-VDD Ouput is used for Fan Bias.
3. DC-VDD=+24V can also be used for PA Module Power Supply if 2.1mm DC Jack leaves floating.
4. Never Apply 2.1mm DC Jack and DC-VDD=+24V together at same time.

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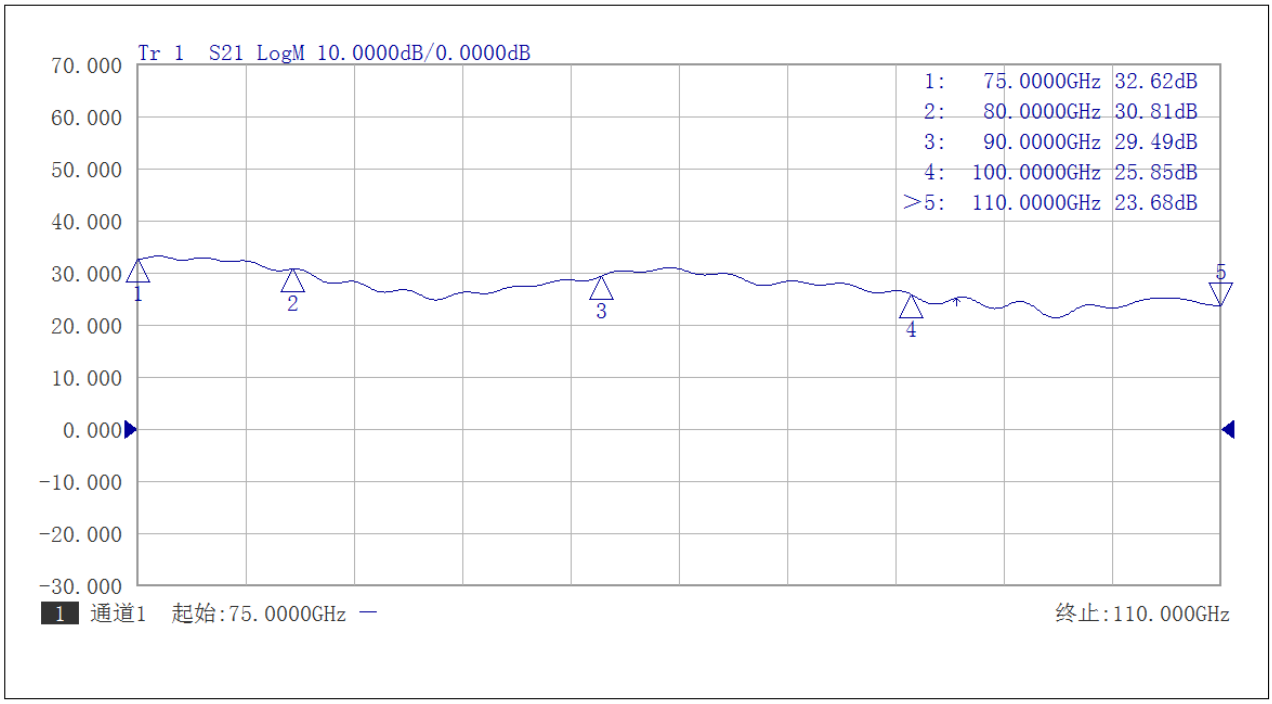
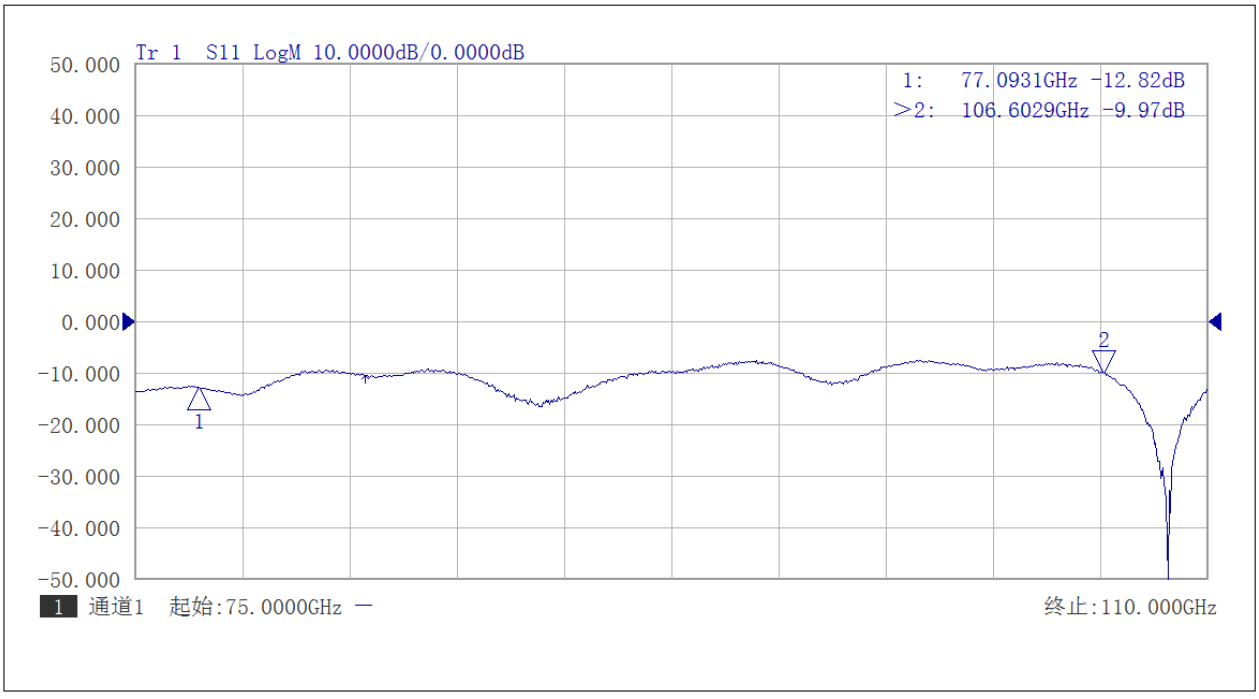
Test Data (25C)

Please note that test curves will vary slightly from unit to unit.



Gain vs Frequency



Input Return Loss vs Frequency

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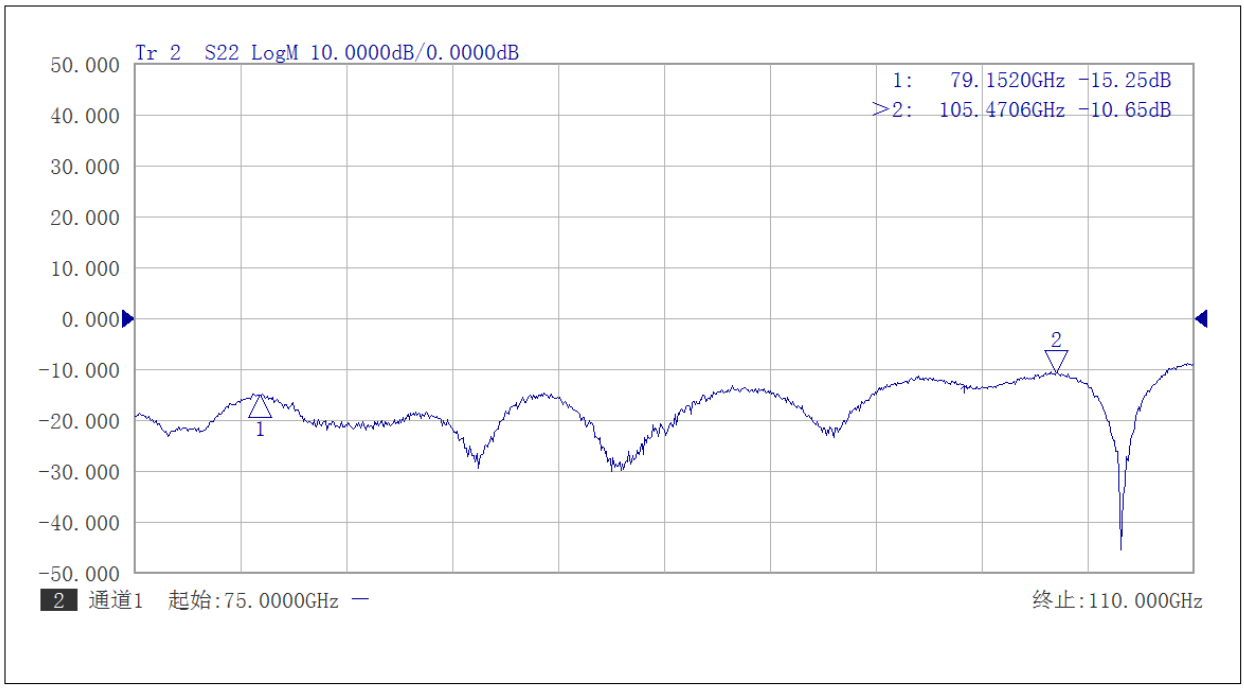
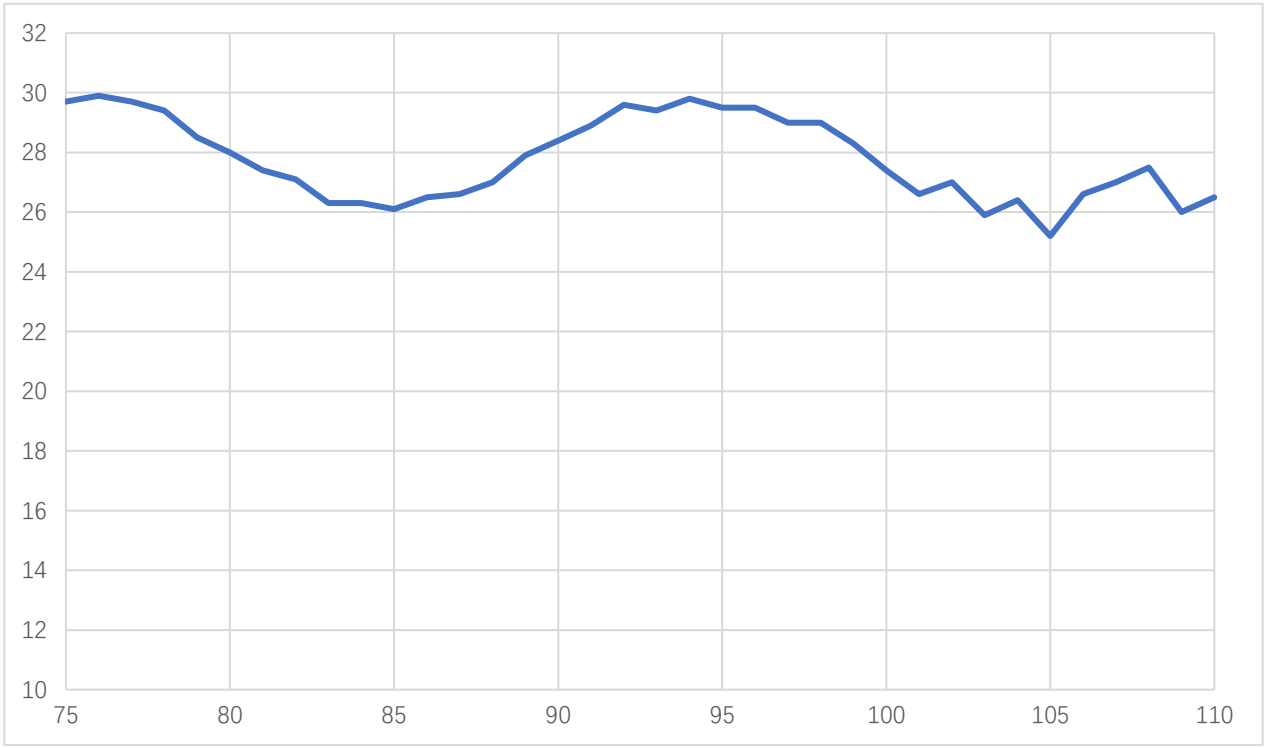


Output Return Loss vs Frequency



Psat vs Frequency

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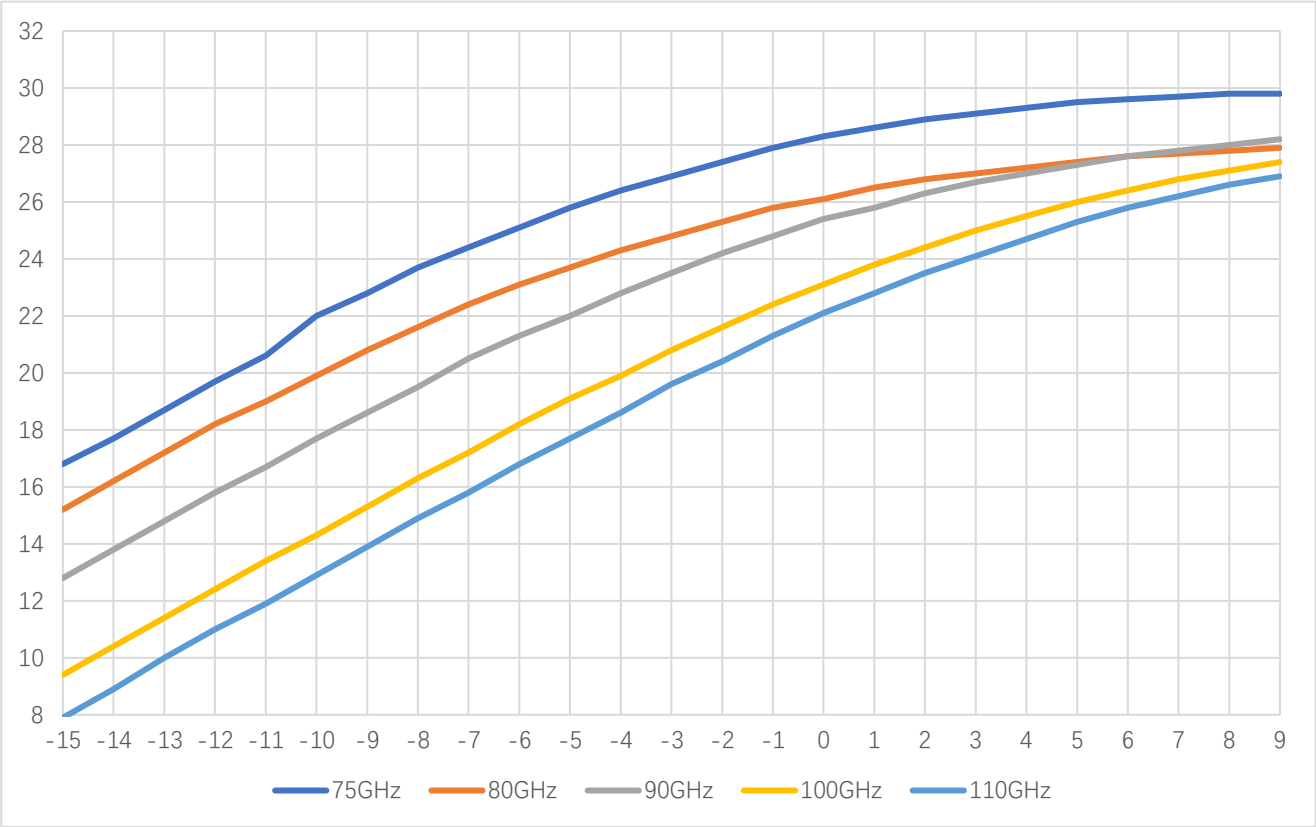
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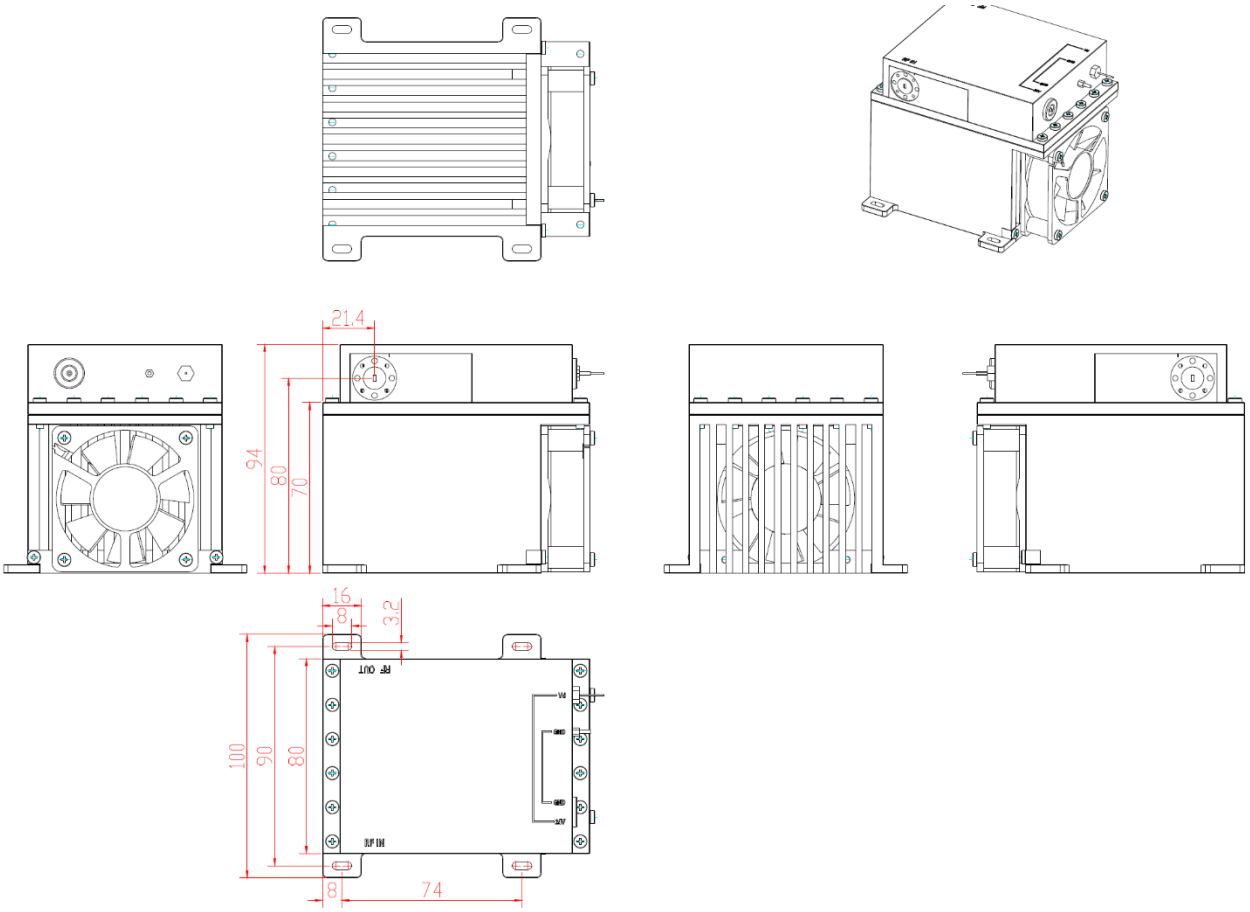
-15 -14 -13 -12 -11 -10 -9 -8 -7 -6 -5 -4 -3 -2 -1 0 1 2 3 4 5 6 7 8 9
75GHz
80GHz
90GHz
100GHz
110GHz

Pout vs Pin

Outline with Heatsink and Fan



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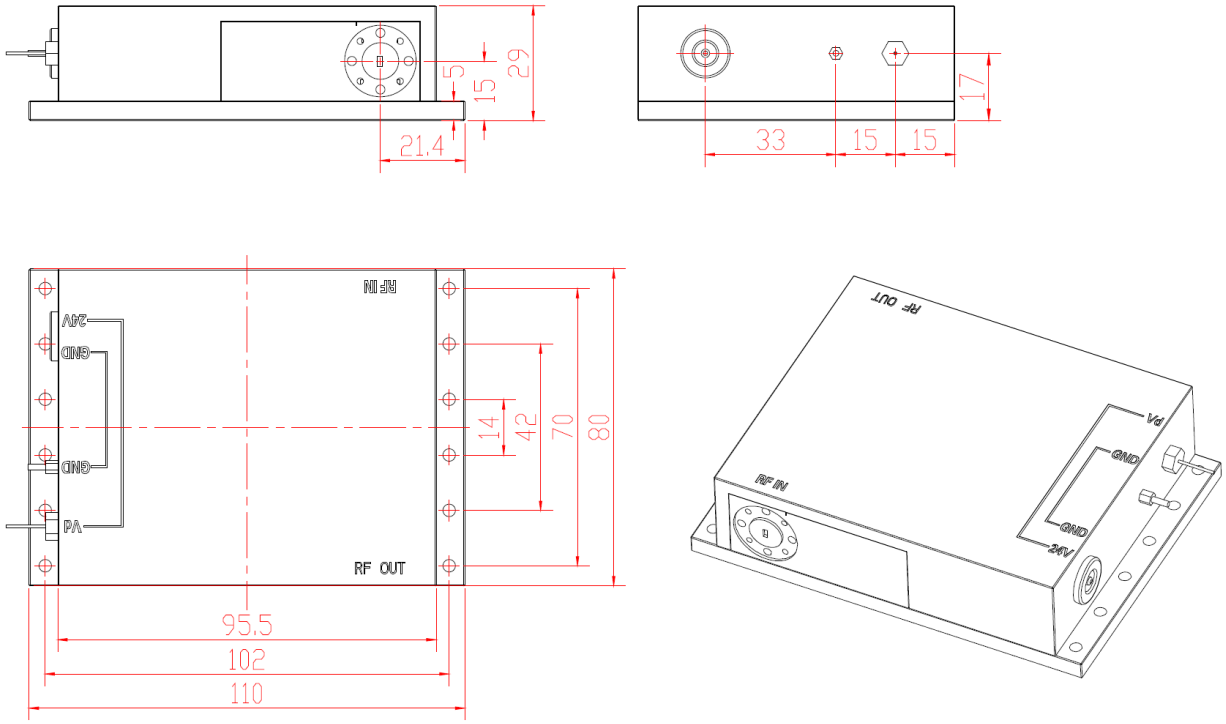
Outline without Heatsink and Fan



Heatsink and Fan required during operation

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