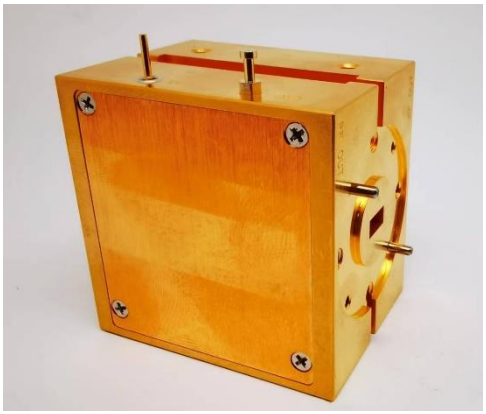
# AT-PA-3350-2023T

33-50GHz Medium Power Amplifier

## Q Band High Power Amplifier

2023-1-30

## 33-50GHz, Gain=20dB, Pout=+23dBm



## Product Overview

AT-PA-3350-2023T is high power amplifier with +23dBm output power in the frequency of 33-50GHz. The DC power requirement is +5V/0.8A. The module is with a standard WR-22 waveguide. Input connector by 2.4mm connector is available according to request.

The power amplifier has high gain, high linearity, low input/output return loss and flat gain response.
More information, please visit www.atmicrowave.com

## Advantages

- ✓ Frequency: 33-50GHz
- ✓ P1/Psat:+21/23dBm
- ✓ Small signal gain: 20dB
- ✓ Single Power Supply

## Application

- ✓ Q Band Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

## Key Features

| Parameter | Min | Typical | Max |
|---|---|---|---|
| Frequency | | 33-50GHz | |
| Gain | 18dB | 20dB | |
| P1dB | +20dBm<br>+17dBm | 33-47GHz: +21dBm<br>47-50GHz: +18dBm | |
| Psat | +22dBm<br>+19dBm | 33-47GHz: +23dBm<br>47-50GHz: +20dBm | |
| Drain Supply | | +5V | +8V |
| Idd NO RF | | 600 mA | |
| Idd Psat | | 800mA | |
| Input Return Loss | | -7dB | |
| Output Return Loss | | -7dB | |
| Spec Temp | | 25C | |

**Shanghai AT Microwave Limited**

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

# AT-PA-3350-2023T

33-50GHz Medium Power Amplifier

## Mechanical Information

| Item | Description |
|---|---|
| Input Port | WR-22 |
| Output Port | WR-22 |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight | 180g |
| Size: | See outline |

## Absolute Maximum Ratings Table

| Parameter | Value |
|---|---|
| Drain Supply | +9V |
| RF Input Power | +15dBm |
| Operating Temperature | 0 to +50C |
| Storage Temperature | -55 to +125C |

## 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 latest data.

## Part Number Selection Guide

| Item | Description |
|---|---|
| PN | Stand Module with DC Power Supply |
| PN-LCBT | Low Cost, Compact Bench-Top, +220V Supply with AC/DC Adapter |




**Shanghai AT Microwave Limited**

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com

# AT-PA-3350-2023T

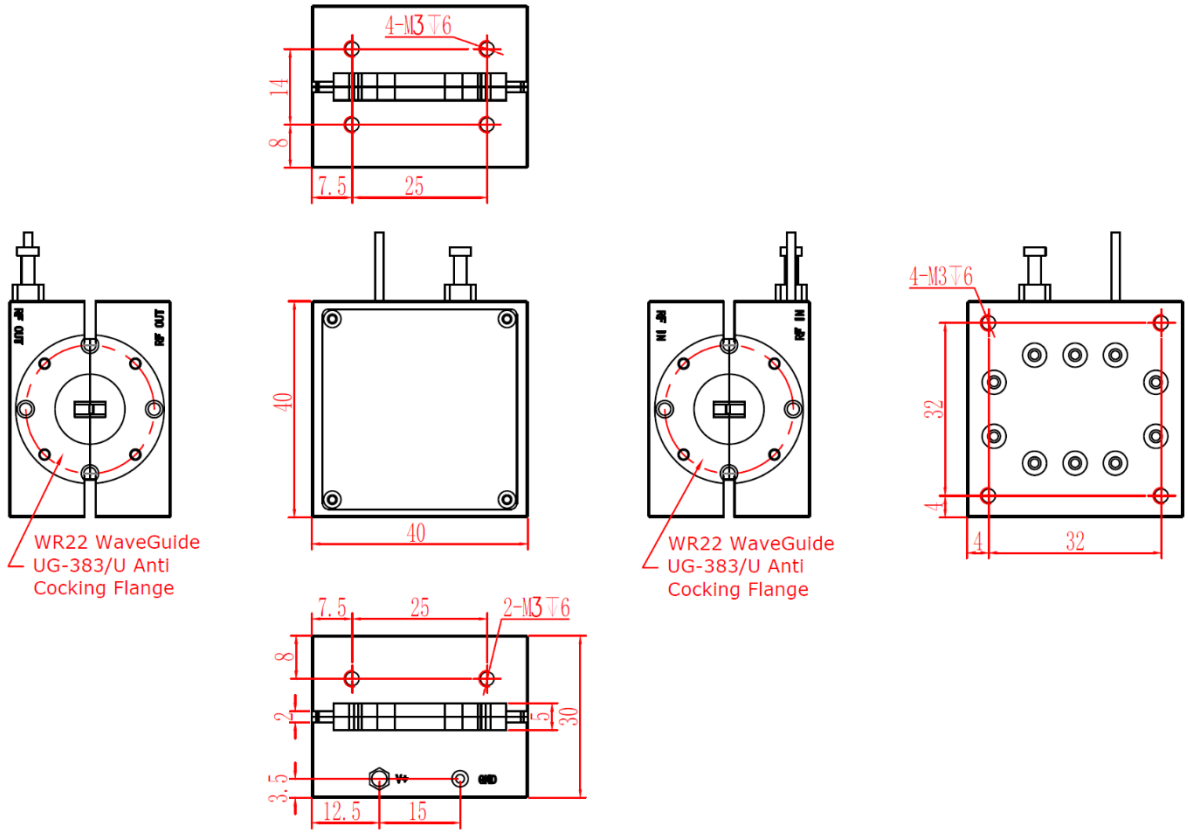
33-50GHz Medium Power Amplifier

## Test Data (25C)

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

To be added.

## Dimension: (unit in mm)





**Shanghai AT Microwave Limited**

Tel:021-6229 1233 Email:sales@atmicrowave.com www.atmicrowave.com