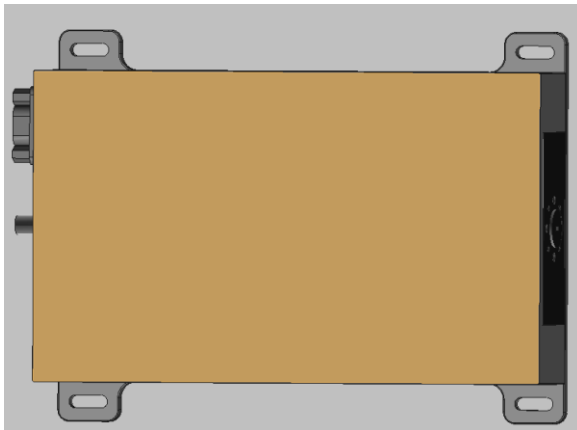


High Power X4 W Band Active Multiplier 78-94GHz, Pout=+25dBm ,WR-10

2022-8-1



Product Overview

AT-AM4-7894-25G1 is a W band, active x4 frequency multiplier. The multiplier has an input frequency of 19.5-23.5GHz with a typical output +25dBm from 78-94GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -20dBc. The input port is SMA female, and the output is a WR-10 waveguide.

Other port configurations are available under different requirement.

More information, please visit www.atmicrowave.com

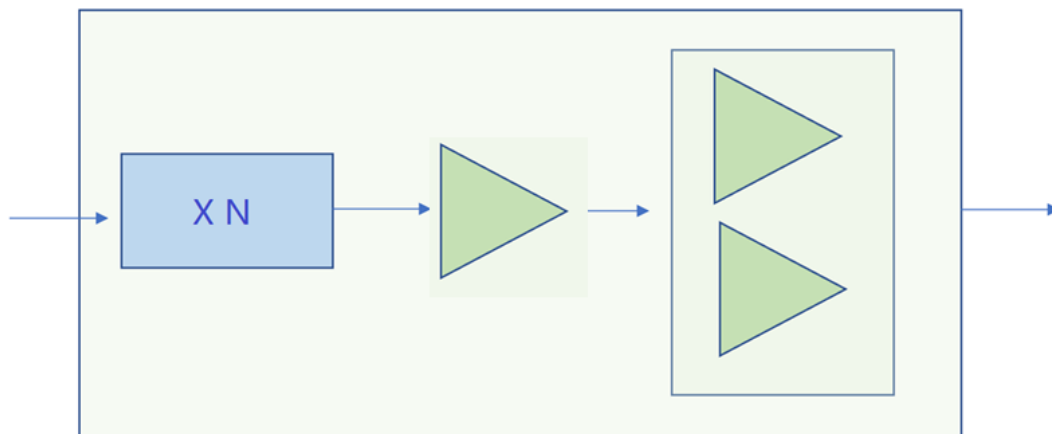
Advantages

- ✓ Frequency: 78-94GHz
- ✓ Pout: +25dBm typical
- ✓ Input: 19.5-23.5GHz, +13dBm
- ✓ Single Supply

Application

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

Block Diagram





AT-AM4-7894-25G1

Active Multiplier x4, 78-94GHz Pout=+25dBm

Key Features

| Parameter | Min | Typical | Max |
|-----------------------------|--------|--------------|-------|
| Input Frequency | | 19.5-23.5GHz | |
| Input Power | +0dBm | +3dBm | +7dBm |
| Multiplier Factor | | X4 | |
| Output Frequency | | 78-94GHz | |
| Output Power | +24dBm | +25dBm | |
| X3/X5 Harmonica Suppression | | -20dBc | |
| Drain Voltage | | +5V | +8V |
| Current Quiescent/A | | 2.0A | |
| Current at Psat | | 2.5A | 3A |
| Spec Temp | | 25C | |

Mechanical Information

| Item | Description |
|---------------------------|-------------|
| Input Port | SMA Female |
| Output Port | WR-10 |
| Case Material | Aluminum |
| Finish | Anodized |
| Weight (Without Heatsink) | 450g |
| Size: | See outline |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +9V |
| RF Input Power | +15dBm |
| Operating Temperature | 0 to 50 C |
| Storage Temperature | -65 to +150C |

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.

