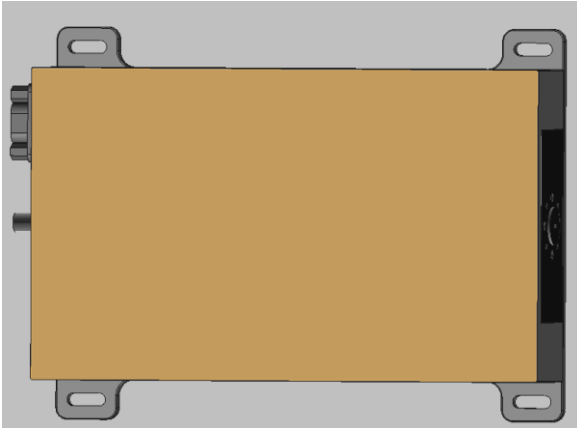




AT-VCO-75110-27D1

75-110GHz Voltage Control Oscillator

75-110GHz Voltage Control Oscillator, High Power=+27dBm, WR-10



Product Overview

AT-VCO-75110-27D1 is broadband voltage controlled oscillator with 75-110GHz output frequency and +27dBm power.

Vtune port is SMA Female, and Output is WR-10 Waveguide with UG-387/U-M Flanges. Power supply is +24V.

More information, please visit www.atmicrowave.com

Advantages

- ✓ Wideband Tuning
- ✓ Low SSB phase noise
- ✓ Low power consumption
- ✓ Simple Power Supply

Application

- ✓ 5G Communication
- ✓ Test Equipment
- ✓ ROF (RF Over Fiber)
- ✓ Radar System

Key Features

| Parameter | Min | Typical | Max |
|------------------------|-----|--------------|------|
| RF OUT Frequency Range | | 75-110GHz | |
| Output Power | +25 | +27dBm | |
| Phase Noise @10kHz | | -40dBc/Hz | |
| Phase Noise @100kHz | | -72dBc/Hz | |
| Phase Noise @1MHz | | -92dBc/Hz | |
| Vtune Range | | 5-15V | |
| Vtune Current | | 10 uA | 25uA |
| Vdd | | +24V | +28V |
| Current | | 1.5A | |
| Sensitivity | | 3.2-4.3GHz/V | |
| Temp | | 25C | |

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Mechanical Information

| Item | Description |
|------------------|-------------|
| Vtune Port | SMA Female |
| RF Output Port | WR-10 |
| Vdd Power Supply | PIN |
| Case Material | Copper |
| Finish | Gold Plated |
| Weight | 450g |
| Dimension | See outline |

Absolute Maximum Ratings Table

| Parameter | Value |
|-----------------------|--------------|
| Drain Supply | +36V |
| Vtune | +20V |
| Operating Temperature | 0 to + 50C |
| Storage Temperature | -65 to +150C |

Caution:

Please pay attention to the case temperature. If case temperature exceed higher than +50C, heat sink and fan are required, or the amplifier may be damaged.

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.

