

High Power x4 Active Multiplier, Pout=+18dBm, 96-116GHz, WR-08

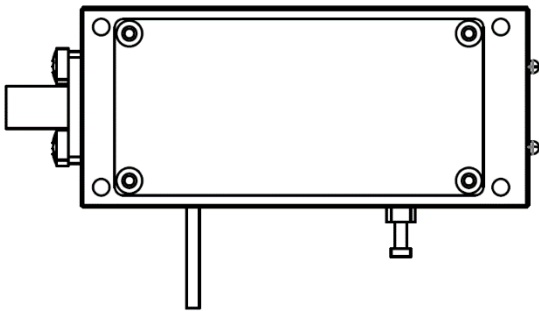
2023-5-5

Product Overview

AT-AM4-96116-18G is a F band, active x4 frequency multiplier. The multiplier has an input frequency of 24-28GHz with a typical output +18dBm from 96-116GHz.

The integrated input and output buffers deliver high output power at a low drive level. The multiplier also has a typical harmonic suppression of -15dBc. The input port is 2.92mm female, and the output is a WR-08 waveguide with a standard UG-387 flange.

More information, please visit www.atmicrowave.com



Feature

- ✓ Frequency: 96-116GHz
- ✓ Pout +18dBm Typ
- ✓ Input: 24-28GHz, +13dBm
- ✓ Single Power Supply

Application

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

Key Features

Parameter	Min	Typical	Max
Input Frequency		24-28GHz	
Multiplier Factor		X4	
Input Power	+10	+13dBm	+15dBm
Output Frequency		96-116GHz	
Output Power	+16dBm	+18dBm	
Harmonic Suppression		-15dBc	
Drain Voltage		+5V	+6V
Current Quiescent/A		1.2A	
Current at Psat		1.3A	1.5A
Specification Temp		25C	





AT-AM4-96116-18G

X4 Active Multiplier, Pout=+18dBm

Mechanical Information

Item	Description
Input Port	2.92mm Female
Output Port	WR-08 Waveguide with UG-387/U-M anti-cocking Flange
Case Material	Copper
Finish	Gold Plated
Weight	190g
Size:	See outline

Absolute Maximum Ratings Table

Parameter	Value
Drain Supply	+9V
RF Input Power	+20dBm
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.

Part Number Selection Guide

Item	Description
AT-AM4-96116-18G	Stand Module with DC Power Supply
AT-AM4-96116-18G-LCBT	<u>L</u> ow Cost, <u>C</u> ompact <u>B</u> ench- <u>T</u> op, +220V Supply with AC/DC Adapter



Dimension(mm)

