

### 40-65GHz Down-Converter, 1.85mm Female NF Test and General Receiver



#### Product Overview

AT-BTDC-4065V is 40-65GHz down-converter with X4 frequency multiplier inside. The down converter RF-IF gain is 5dB with IF amplifier.

The down-converter can be used for NF test and general receiver application. The RF Port is with standard 1.85mm. LO input port and IF Output port are SMA Female.

Higher gain with lower NF is available by AT-BTDC-4065VR, with gain=25dB and NF=8dB.

More information, please visit [www.atmicrowave.com](http://www.atmicrowave.com)

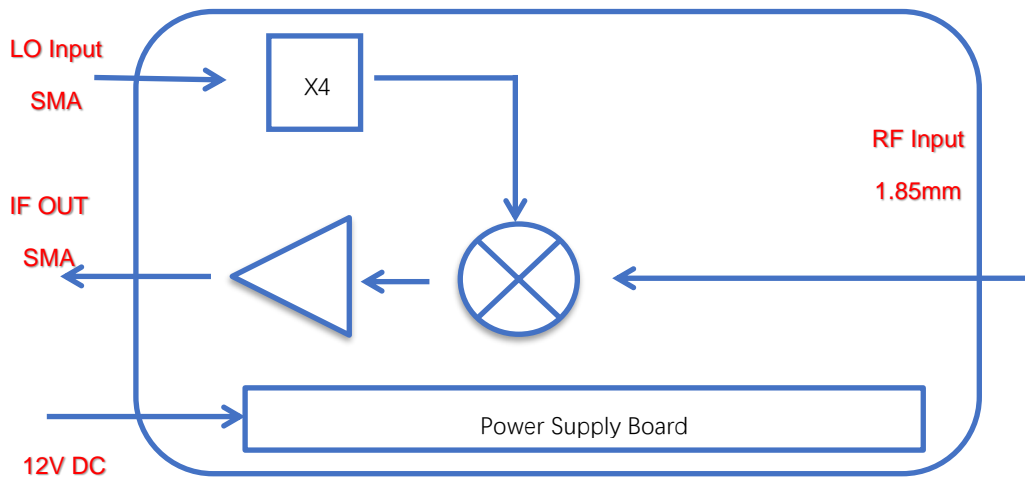
#### Advantages

- ✓ Frequency: 40-65GHz
- ✓ Gain: 5dB
- ✓ IF: 50kHz-20GHz
- ✓ LO X4 inside
- ✓ Bench-Top Labs Test

#### Application

- ✓ Noise Figure Test
- ✓ 5G Communication
- ✓ ROF (RF Over Fiber)
- ✓ Radar System
- ✓ RCS Test

#### Diagram Block:





# AT-BTDC-4065V

Bench-Top 40-65GHz Down-Converter

## Key Features

Parameter	Min	Typical	Max
RF Frequency	40GHz		65GHz
LO Frequency	10GHz		16.25GHz
LO Multiplier Factor		X4	
LO Driver	+10	+13dBm	+15dBm
IF Frequency	50kHz	10MHz-20GHz	
RF-IF Gain	3dB	5dB	
Noise Figure		15dB	18dB
RF Input Return Loss		-10dB	
IF Output Return Loss		-10dB	
Power Supply (with AC/DC Adapter)	+90V	+220V	+240V
Temp Spec		25C	

## Mechanical Information:

Parameter	Value
RF Port	1.85mm Female
LO/IF Port	SMA Female
DC Bias	+12V Supply, AC to DC Power Converter included
DC Bias Switch	ON-OFF switch with light indicator
Dimension	See outline

## Absolute Maximum Ratings Table

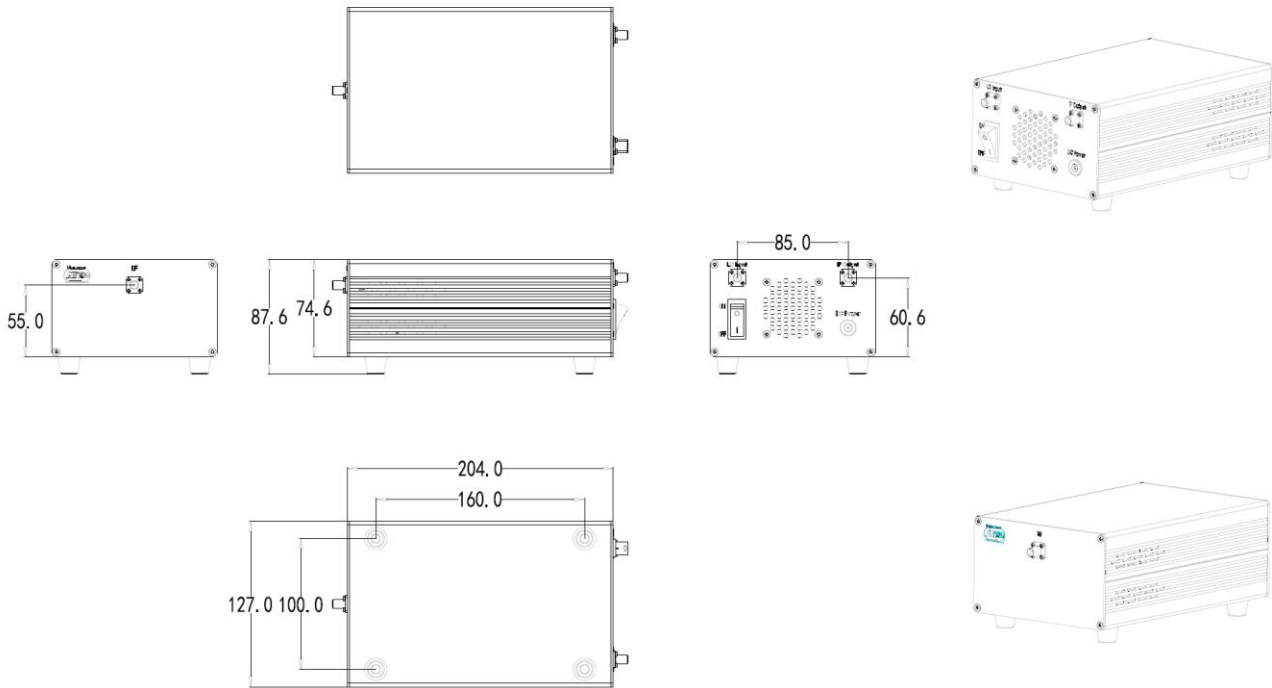
Parameter	Value
AC Supply	+260V
RF Input Power	+15dBm
LO Port Power	+18dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C



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### Dimension: (mm)



### 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.

