

### U Band (40-60GHz) IQ Down-Converter Waveguide WR-19, High Gain=35dB



#### Product Overview

AT-BTIQDC-4060R is full U Band IQ down-converter with X4 frequency multiplier inside. The down converter RF-IF gain is 25dB high gain RF amplifier.

The down-converter can be used for NF test and general receiver application. The RF Port is with standard WR-19. LO input port and IF Output port are SMA Female. AT Microwave provides full band down-converter from U band to D Band.

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

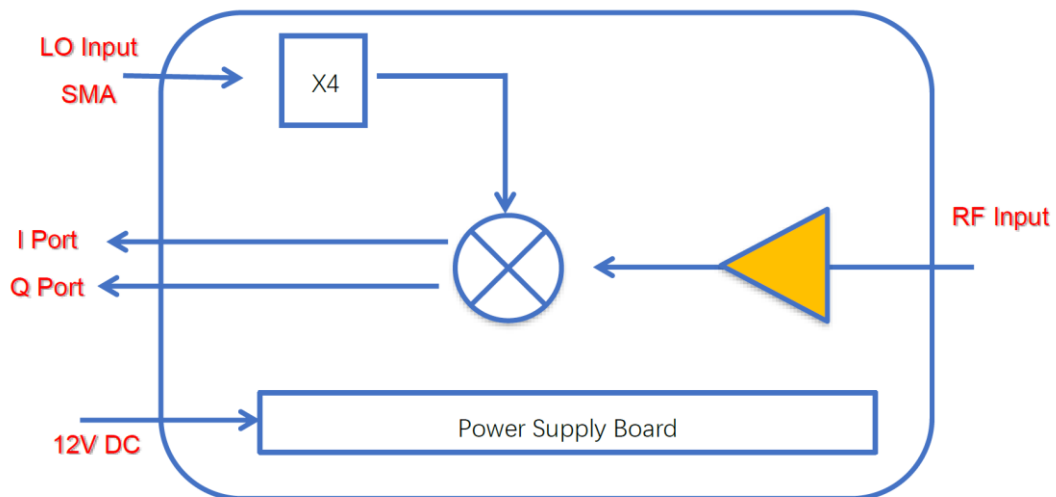
#### Advantages

- ✓ Frequency: 40-60GHz
- ✓ Gain:25dB
- ✓ IF: DC-20GHz
- ✓ LO Input: 10-15GHz, +13dBm
- ✓ Bench-Top Labs Test

#### Application

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

#### Diagram Block:





# AT-BTIQDC-4060R

Bench-Top U Band Down-Converter

## Key Features

Parameter	Min	Typical	Max
RF Frequency	40GHz		60GHz
LO Frequency	10GHz		15GHz
LO Multiplier Factor		X4	
LO Driver	+10	+13dBm	+15dBm
IF Frequency		DC-20GHz	
RF-IF Gain	20dB	25dB	
Noise Figure		5dB	
RF Input Return Loss		-10dB	
IF Output Return Loss		-10dB	
Power Supply (with AC/DC Adapter)	+90V	+220V	+240V
Power Consumption		20W	
RF Input Port		WR-19	
LO Input Port		SMA Female	
IF Output Port		SMA Female	

## 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.





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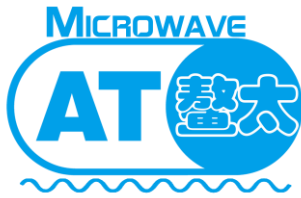
## Mechanical Information:

Parameter	Value
RF Port	WR-19
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	204x127x74.6mm

## Absolute Maximum Ratings Table

Parameter	Value
AC Supply	+260V
RF Input Power	+10dBm
LO Port Power	+18dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C





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## Dimension: (mm)

