

40-65GHz IQ Down-Converter, High Gain=35dB, Low NF=8dB, 1.85mm Female



Product Overview

AT-BTIQDC-4065VR is 40-65GHz down-converter with X4 frequency multiplier inside. The down converter RF-IF gain is 35dB with high gain RF 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.

More information, please visit www.atmicrowave.com

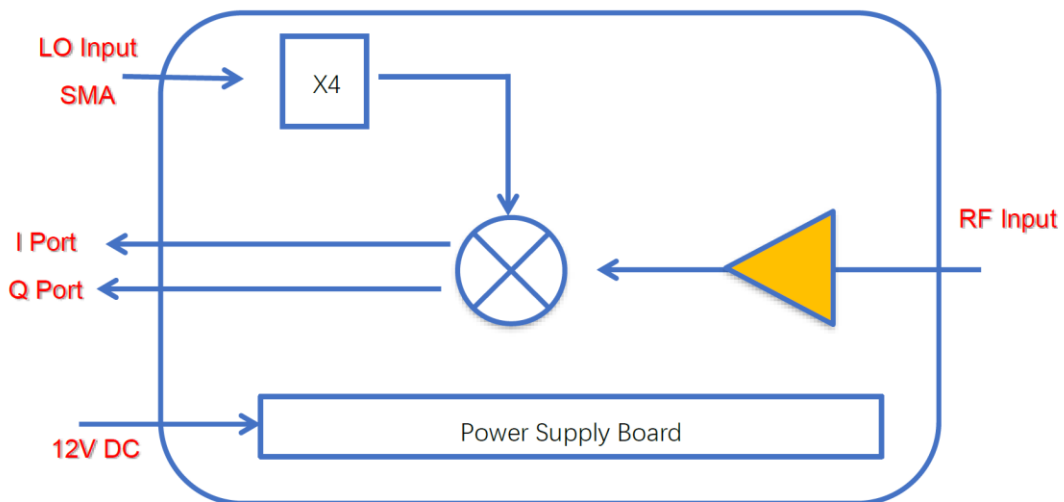
Advantages

- ✓ Frequency: 40-65GHz
- ✓ Gain:20dB
- ✓ IF: DC-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-BTIQDC-4065VR

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		DC-20GHz	
RF-IF Gain	15dB	20dB	
Noise Figure		8dB	
RF Input Return Loss		-10dB	
IF Output Return Loss		-10dB	
Power Supply	+90V	+220V	+240V
Power Consumption		20W	
RF Input Port		1.85mm Female	
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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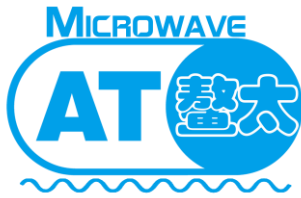
Mechanical Information:

Parameter	Value
RF Port	1.85mm
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)

