

E Band (70-90GHz) IQ Down-Converter Bench-top Test Equipment, WR-12

2021-11-30



Product Overview

AT-BTIQDC-7090R is full E Band down-converter with X6 frequency multiplier inside. The down converter gain is 25dB with high gain RF amplifier.

The down-converter can be used for NF test and general receiver application. The RF Port is with standard WR-12. LO input port and IF Output port are SMA Female. AT Microwave provides full band down-convertors from U band to D Band.

More information, please visit www.atmicrowave.com

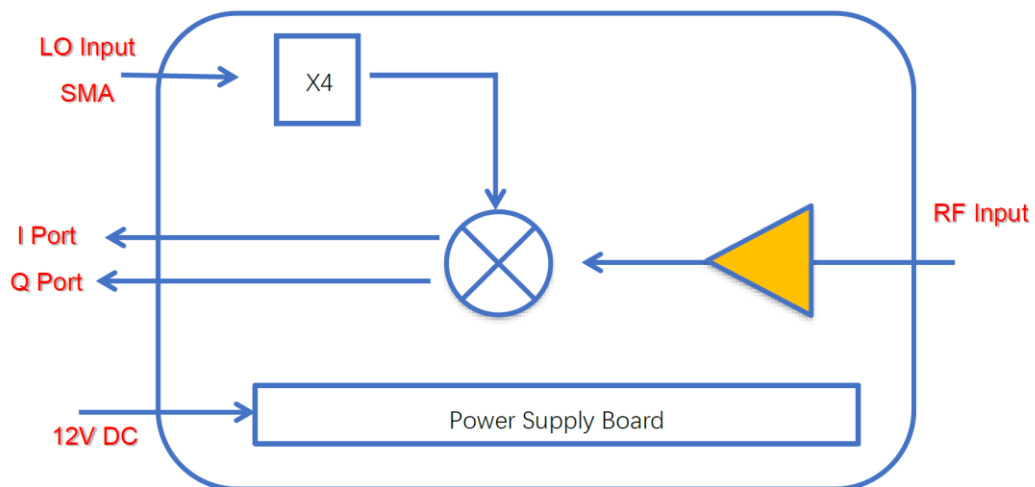
Advantages

- ✓ Frequency: 70-90GHz
- ✓ Gain:25dB
- ✓ IF: DC-10GHz
- ✓ 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-BTDC-7090R

Bench-Top E Band Down-Converter

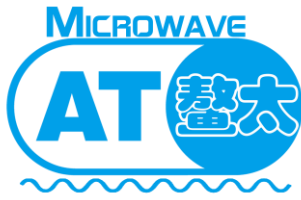
Key Features (test condition IF=100MHz)

Parameter	Min	Typical	Max
RF Frequency	70GHz		90GHz
LO Frequency	10GHz		15GHz
LO Multiplier Factor		X6	
LO Driver	+10	+13dBm	+15dBm
IF Frequency		DC-10GHz	
RF-IF Gain		30dB	
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-12	
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.





AT-BTDC-7090R

Bench-Top E Band Down-Converter

Mechanical Information:

Parameter	Value
RF Port	WR-12
LO/IF Port	SMA Female
DC Bias	+15V 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	+10dBm
LO Port Power	+18dBm
Operating Temperature	0 to 50 C
Storage Temperature	-65 to +150C



Dimension: (mm)

