

## Frequency Extender 330-500GHz /WR-2.2

**Model: TLSE-330500-N230-2.2**

TLSE-330500-N230-2.2 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 330-500 GHz.

### Features:

- Ultra Wide Band: 330-500 GHz
- Output Power : -2 dBm Typ
- Low power consumption

### Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	330		500	GHz
Output Power		-2		dBm
Dynamic Range (Optional mechanical Attenuator)		30		dB
Input Frequency	9.16		13.89	GHz
Input Power	3	5	7	dBm
Multiplication Factor		36		

### Mechanical Specifications:

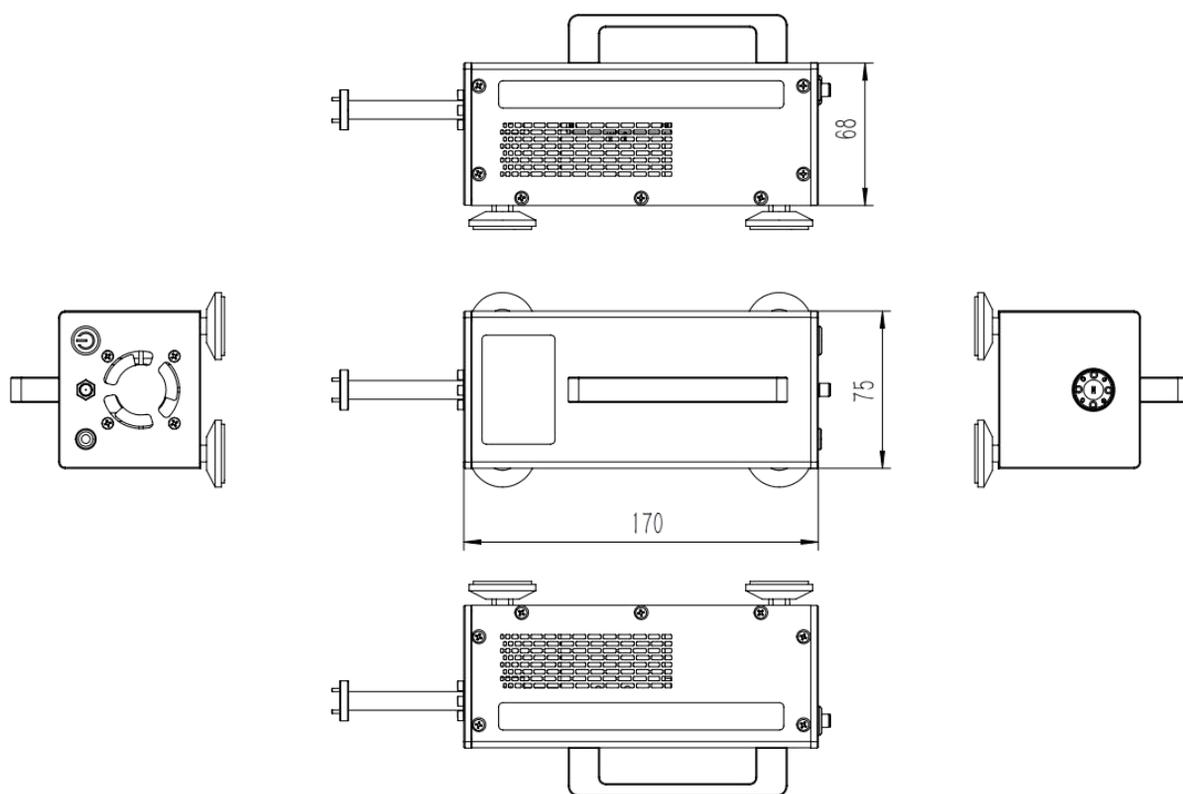
Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-2.2/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	170*75*68	mm

## Absolute Maximum Ratings:

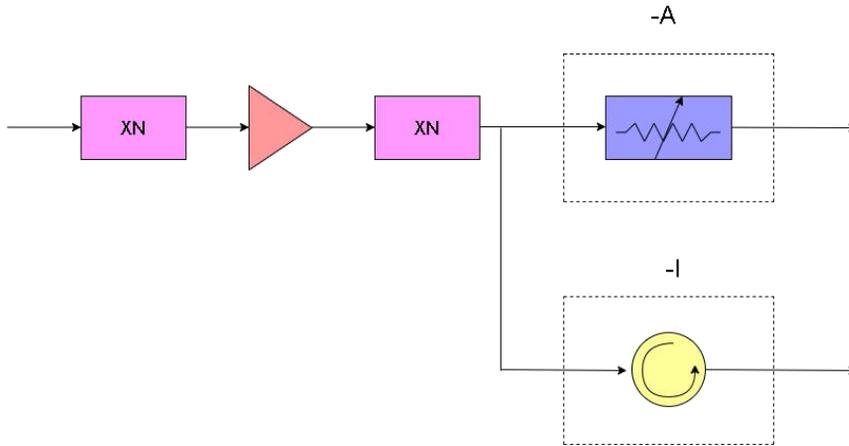
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

## Outline Drawing:

Unit:mm



## Block Diagrams:



## Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		95		%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

## Ordering Information:

Part Number	Description	Option		Revision
		Optional Mechanical Attenuator	Isolation	
TLSE-330500-N230-2.2	Frequency Extender,X36,330-500GHz, Output Power: -2 dBm Typ	-A	-I	Rev.1.2

## Components Included:

Part Number

Description

Quantity

## Typical Performance Data:

