

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:

- Frequency range: 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)	0		30	dB
Input Frequency	9.16		13.89	GHz
Input Power	3	5	7	dBm
Multiplication Factor		36		

Mechanical Specifications:

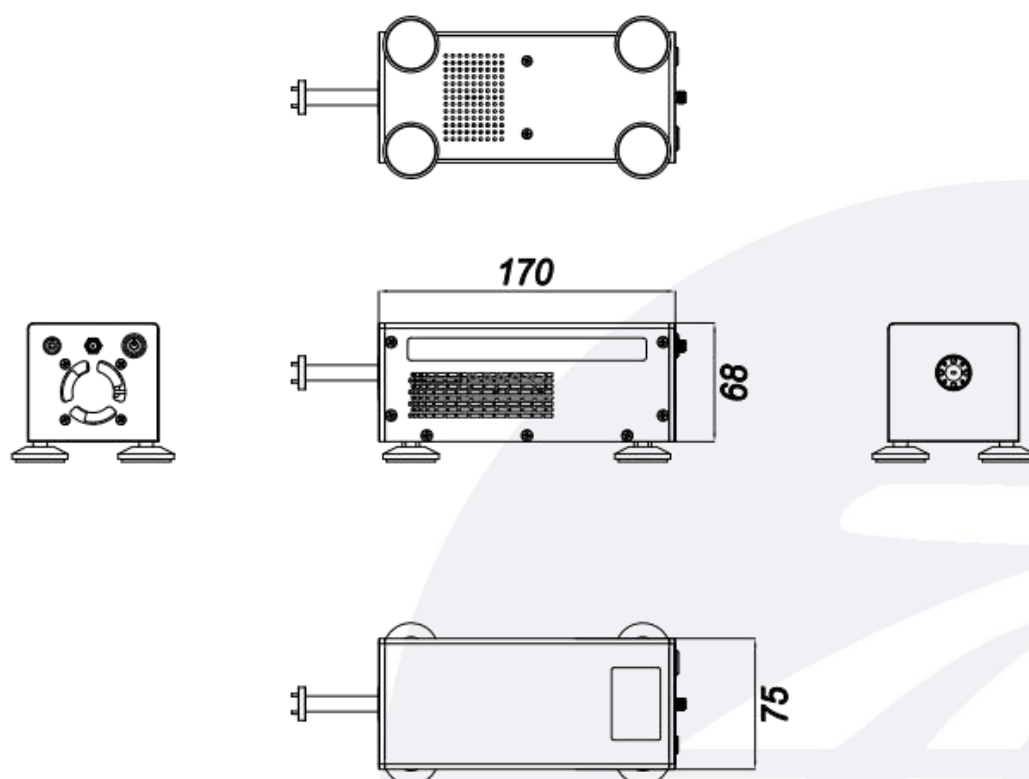
Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-2.2/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	170*75*68	mm

Absolute Maximum Ratings:

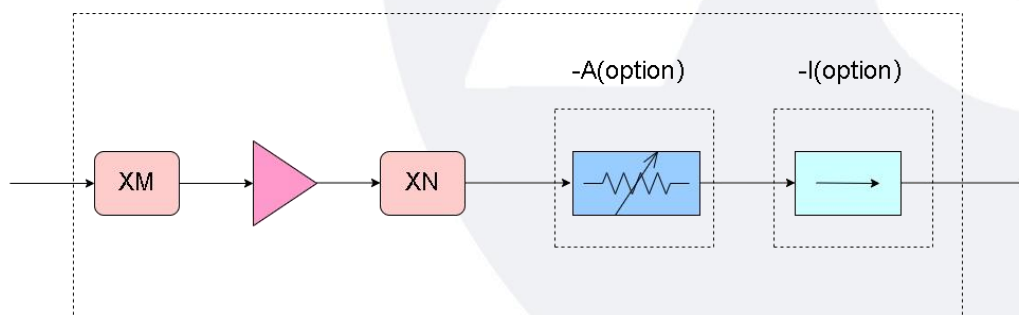
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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			

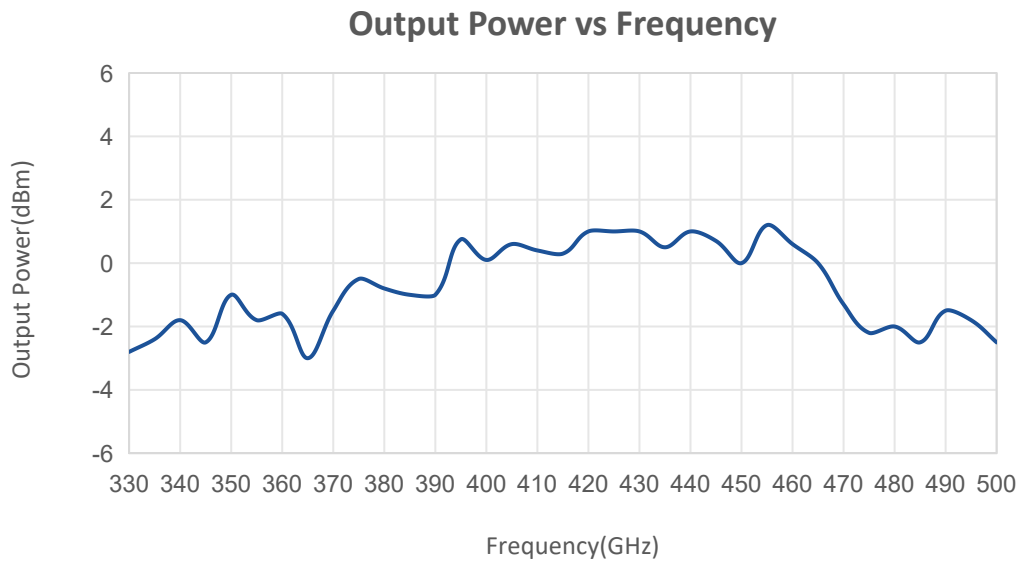
Ordering Information:

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
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

Typical Performance Data:



Note: Above data is for ref only, actual data may vary from unit to unit depending on operating environment and other factors like material lots etc.