Suzhou Talent Microwave,Inc
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Frequency Extender

320-350GHz/WR-2.8

Model: TLSE-320350-1030-2.8

TLSE-320350-1030-2.8 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 320-350 GHz.

Features:

- Frequency range: 320-350 GHz
- Output Power : 10dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	320		350	GHz
Output Power		10		dBm
Dynamic Range (Optional mechanical Attenuator)	0		30	dB
Input Frequency	13.33		14.58	GHz
Input Power	3	5	7	dBm
Multiplication Factor		24		
Supply DC Voltage	100	220	240	V

Mechanical Specifications:

Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-2.8/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	257*154*78	mm

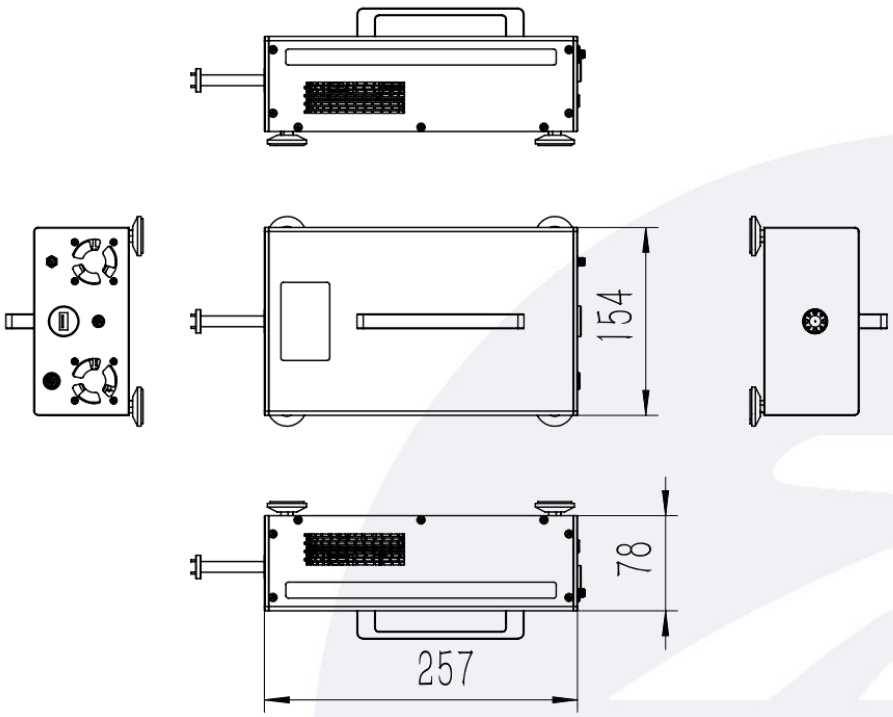
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Absolute Maximum Ratings:

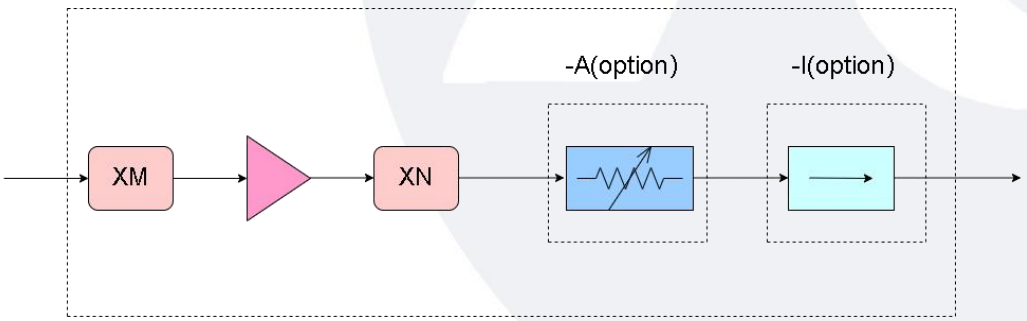
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Block Diagrams:



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Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	℃
Non-operating Temperature	-45		+85	℃
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:

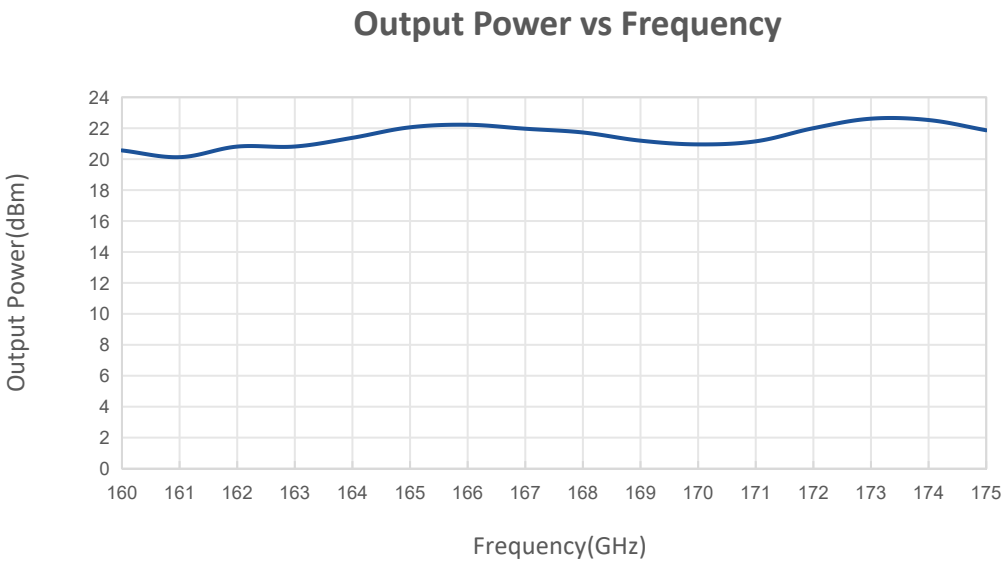
Part Number	Desciption	Option		Revision
		Optional Mechanical Attenuator	Isolation	
TLSE-320350-1030-2.8	Frequency Extender,X24,320-350GHz, Output Power: 10dBm Typ	-A	-I	Rev.1.2

Components Included:

Part Number	Description	Quantity
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS

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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.