Suzhou Talent Microwave,Inc
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W–Band Frequency Extender

75-110GHz/WR-10

Model: TLDSE-075110-1030-10

TLDSE-075110-1030-10 dual frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 75-110 GHz.

Features:

- Frequency range: 75-110GHz
- Output Power: 10dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Ch1/Ch2 Output Power		10		dBm
Dynamic Range (Mechanical Attenuator)	0		30	dB
Input Frequency	12.5		18.34	GHz
Input Power	3	5	7	dBm
Harmonics Suppression	25			dBc
Multiplication Factor		6		
Input VSWR		2		:1
Output VSWR		2		:1
Power Stability		±0.08		dB
Supply Voltage		220		V AC

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Mechanical Specifications:

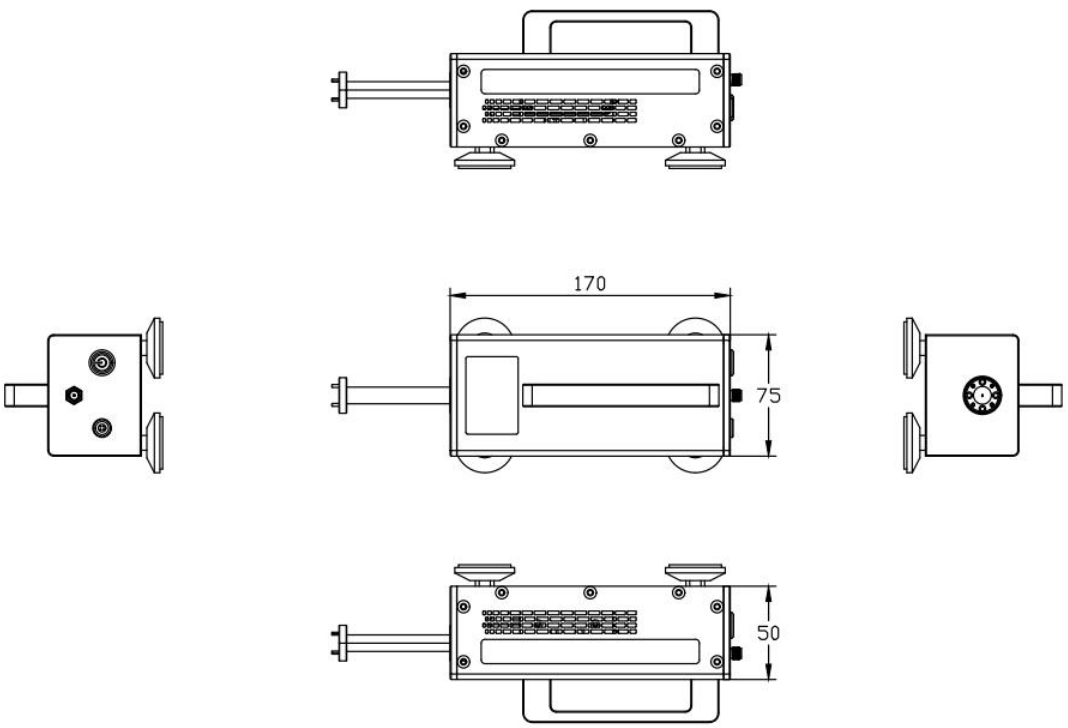
参数 Parameter	指标 Value	单位 Units
Input Connector	SMA Female	
Output Connector	WR-10/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	170*75*50	mm

Absolute Maximum Ratings:

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

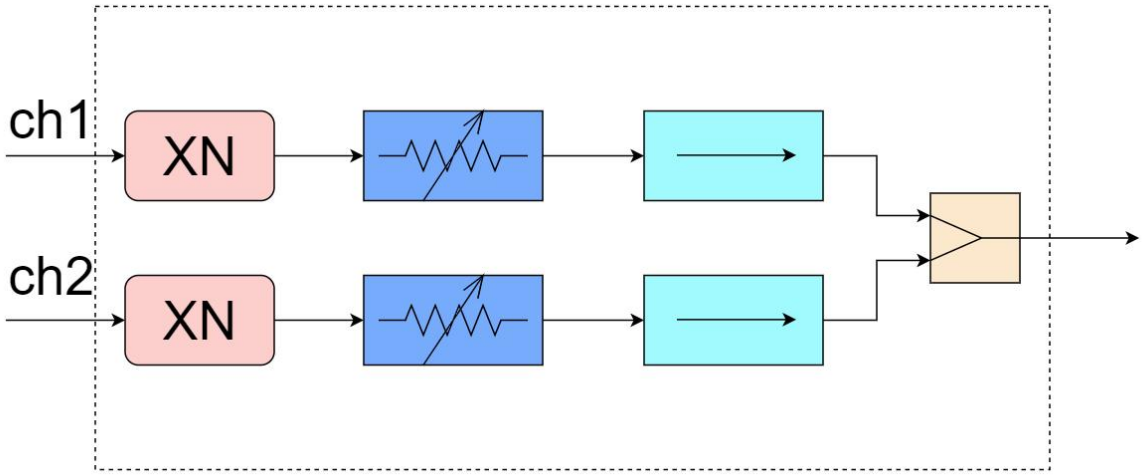
Outline Drawing:

Unit:mm; Tolerance:±0.1mm



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Block Diagrams:



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	Description	Revision
TLDSE-075110-1030-10	W-Band Frequency Extender, X6, 75-110GHz, Output Power: 10dBm Typ	Rev.1.0

Components Included:

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