Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

D–Band Frequency Extender

110-170GHz/WR-6.5

Model: TLDSE-110170-1030-06

TLDSE-110170-1030-06 dual frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 110-170 GHz.

Features:

- Frequency range: 110-170GHz
- Output Power: 10dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	110		170	GHz
Ch1/Ch2 Output Power		10		dBm
Dynamic Range (Mechanical Attenuator)	0		30	dB
Input Frequency	9.16		14.17	GHz
Input Power	3	5	7	dBm
Harmonics Suppression	20			dBc
Multiplication Factor		12		
Input VSWR		2		:1
Output VSWR		2		:1
Power Stability		±0.12		dB
Supply Voltage		220		V AC

Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

Mechanical Specifications:

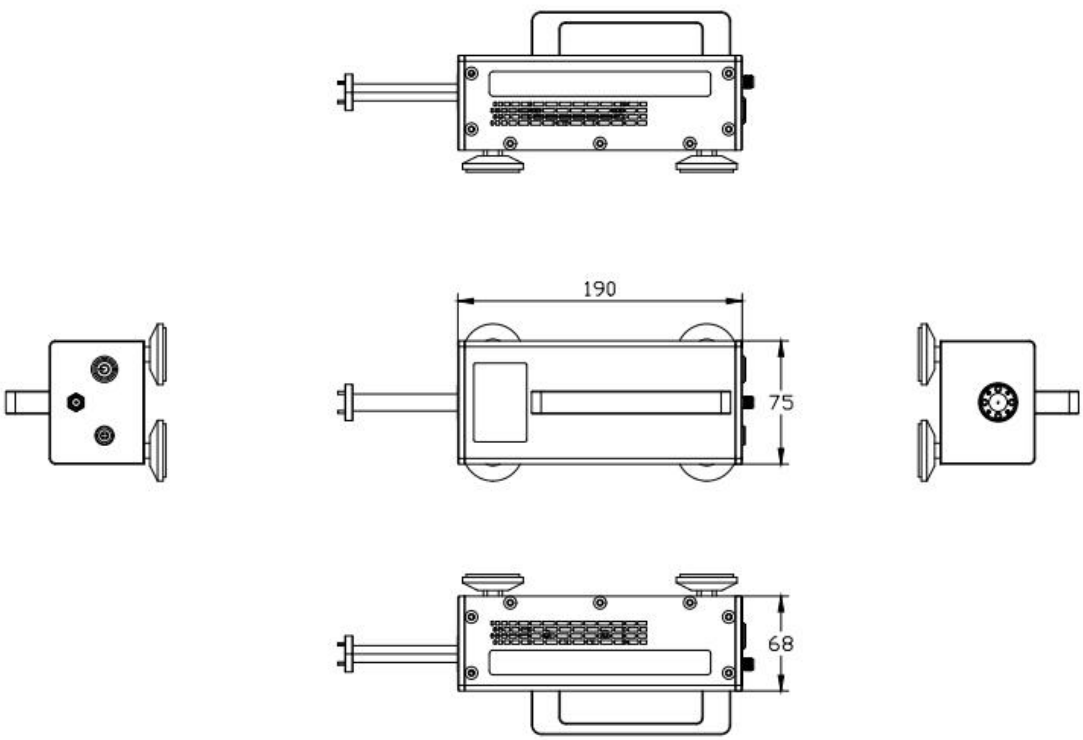
参数 Parameter	指标 Value	单位 Units
Input Connector	SMA Female	
Output Connector	WR-6.5/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	190*75*68	mm

Absolute Maximum Ratings:

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

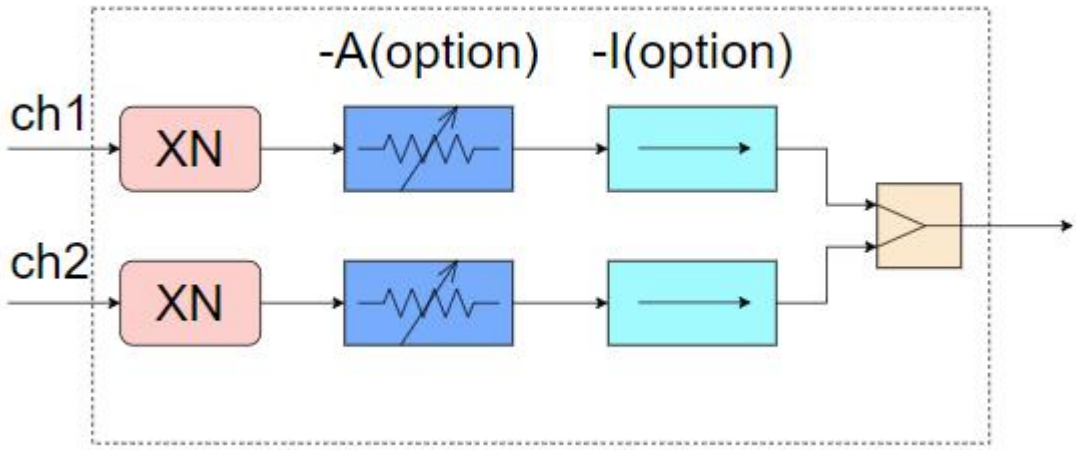
Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Suzhou Talent Microwave,Inc
sales@talentmw.com
www.talentmw.com

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-110170-1030-06	D-Band Frequency Extender, X12, 110-170GHz, Output Power: 10dBm Typ	Rev.1.0

Components Included:

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