

**Model: TLSE-110170-1330-06**
**D-Band, Frequency Extender  
 X12 ,110-170GHz, Output Power: 13 dBm**
**Feature:**

- Output Frequency: 110-170 GHz
- Output Power :13 dBm Typ
- Low power consumption

**Electrical Specifications:**

Parameter	Min.	Typ.	Max.	Units
Output Frequency	110		170	GHz
Output Power		13		dBm
Dynamic Range (Optional mechanical Attenuator)		30		dB
Input Frequency	9.16		14.17	GHz
Input Power		+5	+10	dBm
Multiply Factor		12		dB
Harmonic Suppression		-20		dBc
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Supply Current		200		mA

**Mechanical Specifications:**

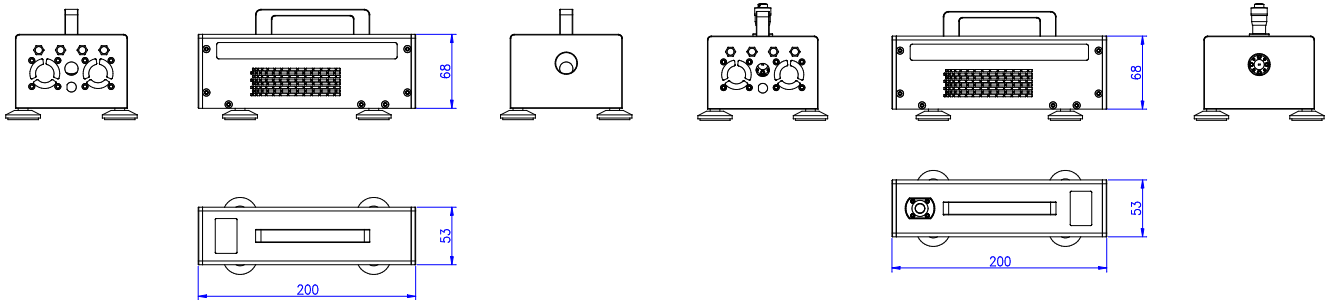
Parameter	Value	Units
Output Connector	WR-06/UG-387/U	
Input Connector	SMA Female	
AC Bias	Power adapter: 100-240VAC,	
Size	200*53*68	mm

**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



(Optional mechanical Attenuator)

**Environmental Conditions:**

Parameter	Min.	Typ.	Max.	单位Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-55		+125	°C
Relative humidity		95		%
Altitude	50,000			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-110170-1330-06	D-Band, Frequency Extender X12 ,110-170GHz, Output Power: 13 dBm	-A	-I	Rev.1.2