

**Model: TLSE-060090-1330-12**
**E-Band, Frequency Extender  
 X6 ,60-90GHz, Output Power: 13 dBm ,**
**Feature:**

- Output Frequency: 60-90 GHz
- Output Power :13 dBm Typ
- Low power consumption

**Electrical Specifications:**

Parameter	Min.	Typ.	Max.	Units
Output Frequency	60		90	GHz
Output Power		13		dBm
Dynamic Range (Optional mechanical Attenuator)		30		dB
Input Frequency	10		15	GHz
Input Power		+5	+10	dBm
Multiply Factor		6		dB
Harmonic Suppression		-20		dBc
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Supply Current		210		mA

**Mechanical Specifications:**

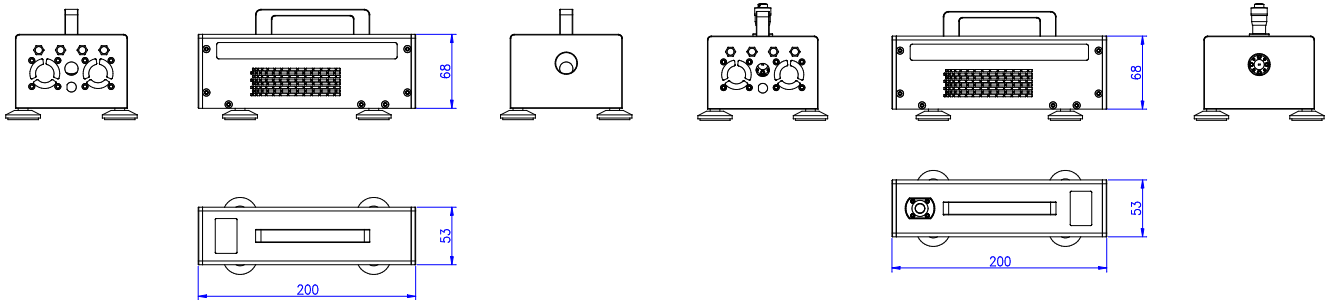
Parameter	Value	Units
Output Connector	WR-12/UG-387/U	
Input Connector	SMA Female	
AC Bias	Power adapter: 100-240VAC,	
Size	200*53*68	mm

**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-060090-1330-10	E-Band, Frequency Extender X6 ,60-90GHz, Output Power: 13 dBm	-A	-I	Rev.1.2