

**Model: TLSE-220330-0030-03**
**WR-03 Frequency Extender  
 X18 ,220-330 GHz, Output Power: 0 dBm ,**
**Feature:**

- Output Frequency: 220-330 GHz
- Output Power : 0 dBm Typ
- Low power consumption

**Electrical Specifications:**

Parameter	Min.	Typ.	Max.	Units
Output Frequency	220		330	GHz
Output Power		0		dBm
Dynamic Range (Optional mechanical Attenuator)		30		dB
Input Frequency	12.22		18.34	GHz
Input Power		+5	+10	dBm
Multiply Factor		18		dB
Harmonic Suppression		-20		dBc
Input VSWR		2.0		:1
Output VSWR		2.0		:1
DC Voltage		+12		V
DC Supply Current		3000		mA

**Mechanical Specifications :**

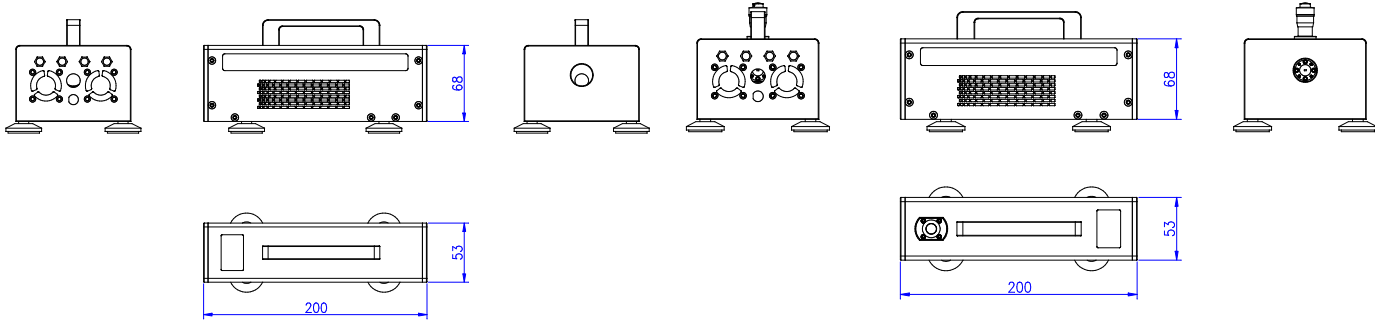
Parameter	Value	Units
Output Connector	WR-03/ UG-387/U	
Input Connector	SMA Female	
Bias	Power adapter: 100-240VAC,	
Size		mm

**Absolute Maximum Ratings:**

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

**Outline Drawing:**

Unit: mm



**Environmental Conditions:**

Parameter	Min.	Typ.	Max.	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-55		+85	°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-220330-0030-03	WR-03 Frequency Extender X18 ,220-330GHz, Output Power: 0 dBm	-A	-I	Rev.1.2