

## J-Band Transmit Extender 220-330GHz /WR-03

**Model: TLTE-220330-N3**

TLTE-110170-N3 Transmit extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 220-330 GHz.

### Features:

- Ultra Wide Band:220-330 GHz
- Port Output Power (No Attenuation): -3dBm Typ
- Dynamic Range @ 10 Hz BW: 100dB Typ
- Unconditional stability

### Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	220		330	GHz
Test Port Output Power		-3		dBm
Dynamic Range @ 10Hz BW		100		dB
RF Input Frequency	12.22		18.33	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		18		
LO Input Frequency	9.16		13.75	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		24		
IF Frequency Range	1		1000	MHz
Stability @300Hz BW		±0.2		dB

### Mechanical Specifications:

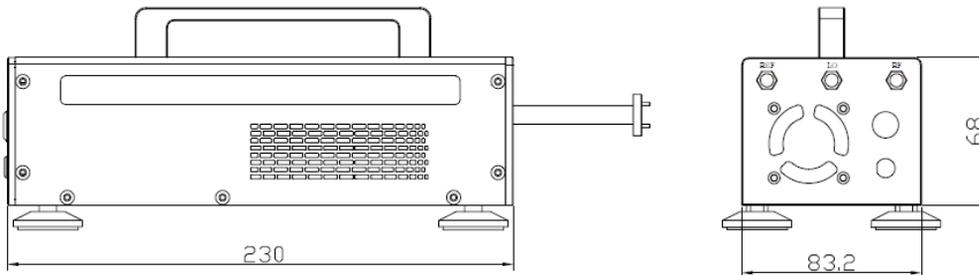
Parameter	Value
RF/LO Input Connector	SMA Female
REF IF Output Connector	SMA Female
Test Port Connector	WR-03/UG-387/U
Power Supply Pin	FGG 0B 4 Core
Size	230*83.2*68mm

### Absolute Maximum Ratings :

Description	Parameter	Units
RF/LO Port Damage Level	+10	dBm
Supply Bias Voltage	+240 V AC	
ESD sensitivity (HBm)	Class 0, passed 150V	

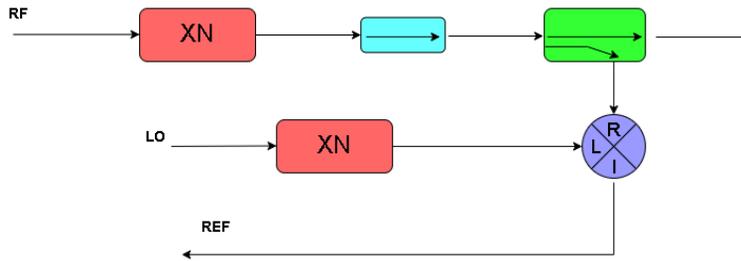
### Outline Drawing:

Unit:mm



TLTE-220330-N3

## Block Diagrams:



## Environmental And Physical Characteristics:

Description	Parameter	Units
Operating Temperature	0 To +45	°C
Storage Temperature	-55 to +125	°C
Material	Al	
Finish	Gray spray paint	

## Ordering Information:

Part Number	Description	Revision
TLTE-220330-N3	J-band Transmit,220-330 GHz, Output Power:-3dBm typ.,Dynamic Range@ 10Hz BW:100dB typ.	Rev.1.1

## Components Included:

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