

## W-Band VNA Frequency Transmit Extender 75-110GHz /WR-10

**Model: TLTE-75110-09**

TLTE-75110-09 frequency extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 75-110 GHz.

### Features:

- Ultra Wide Band: 75-110 GHz
- Port Output Power (No Attenuation): 9 dBm Typ
- Dynamic Range @ 10 Hz BW: 135dB Typ
- Unconditional stability

### Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

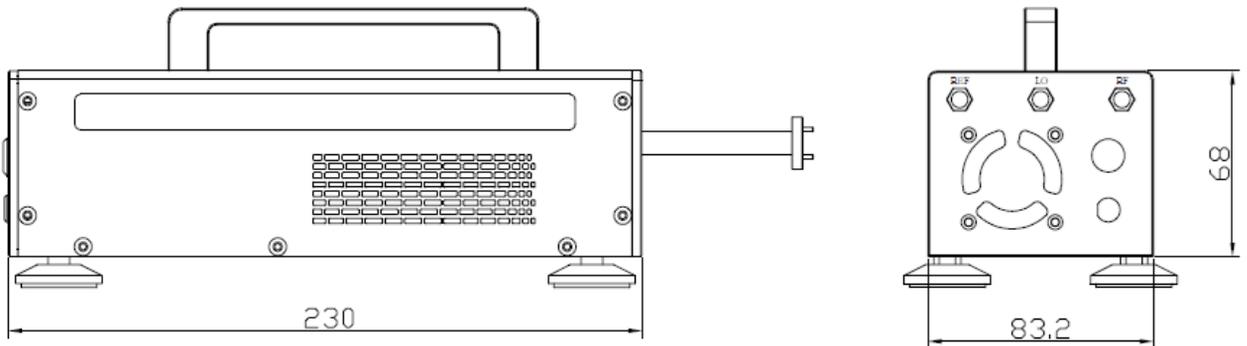
### Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Test Port Output Power		9		dBm
Magnitude Stability @ 300 Hz BW		±0.1		dB
Dynamic Range @ 10Hz BW	110	135		dB
RF Input Frequency	12.5		18.33	GHz
RF Input Power	3	7	10	dBm
RF Multiplication Factor		6		
LO Input Frequency	12.5		18.33	GHz
LO Input Power	3	7	10	dBm
LO Multiplication Factor		6		
IF Frequency Range	1		1000	MHz

## Absolute Maximum Ratings :

Description	Parameter	Units
Test Port Input Power	+20	dBm
RF/LO Port Damage Level	+10	dBm
ESD sensitivity (HBm)	Class 0, passed 150V	
Supply Bias AC Voltage	240	V

## Outline Drawing: Unit:mm



## 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	
Size	230*68*83.2	mm

### Connector Information:

Parameter	Value
RF Input Connector	SMA Female
LO Input Connector	SMA Female
IF Output Connector	SMA Female
Test Port Connector	WR-10/UG-387/U
Power Supply Pin	FGG 0B 4 Core

### Ordering Information:

Part Number	Description	Revision
TLTE-75110-09	Transmit Extender, 75-110 GHz, Output Power:9 dBm typ, Dynamic Range:135 dB typ.	Rev.1.1

### Components Included:

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