

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

Model: TLRE-75110

TLRE-75110 frequency extenders are a compact coaxial vector network analyzer (VNA) frequency extender receiver (RX) module that extends lower frequency VNA signals to 75 to 110 GHz.

Features:

- Ultra Wide Band: 75-110 GHz
- Conversion loss: 9 dBm Typ
- Unconditional stability

Applications:

- Transmit Extension
- Material characterisation

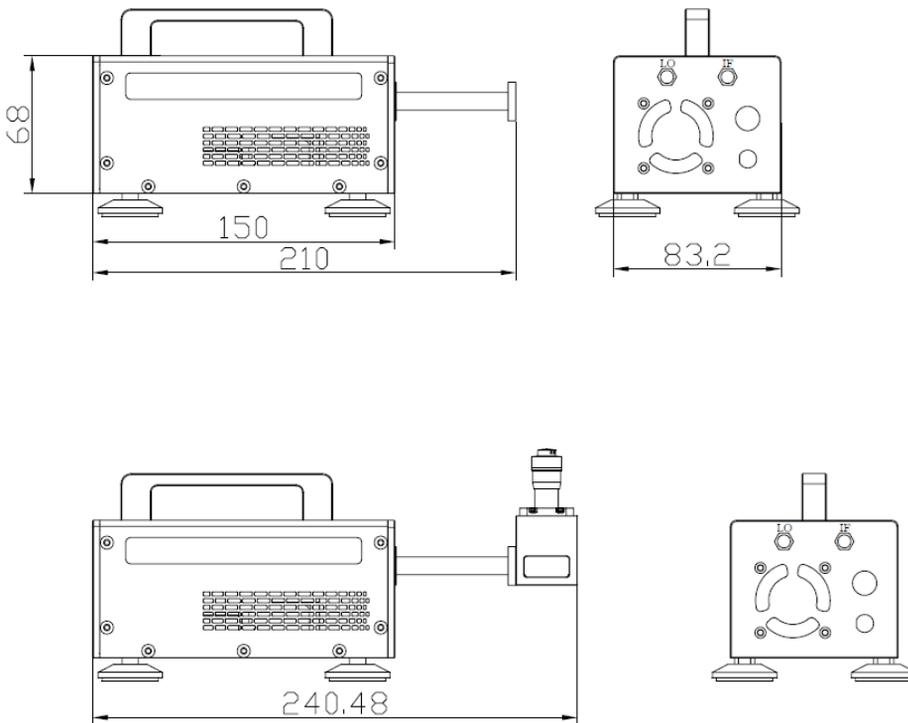
Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
RF Input Power		-10	0	dBm
LO Input Frequency	12.5		18.33	GHz
LO Input Power	3	7	10	dBm
IF Frequency Range	DC		30	GHz
Conversion Loss		9		dB
Multiplication Factor		6		

Absolute Maximum Ratings :

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

Outline Drawing(Attenuator Optional): 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	150*83.2*68	mm

Connector Information:

Parameter	Value
RF Input Connector	WR-10/UG-387/U
LO Input Connector	SMA Female
IF Output Connector	2.92mm Female
Power Supply Pin	FGG 0B 4 Core

Ordering Information:

Part Number	Description	Revision
TLRE-75110	Receiver Extender, 75-110 GHz, Conversion Loss:9dB typ.	Rev.1.1

Components Included:

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