

## G-Band Receiver Extender 140-220GHz /WR-05

**Model: TLRE-140220**

TLRE-140220 Transmit extenders are a dedicated Test & Measurement solution for extending the range of your Vector Network Analyzer (VNA) to 140-220 GHz.

### Features:

- Ultra Wide Band: 140-220 GHz
- Conversion loss: 10 dB Typ
- Unconditional stability

### Applications:

- Receiver Extension
- Antenna measurements
- Material characterisation

### Electrical Characteristics:

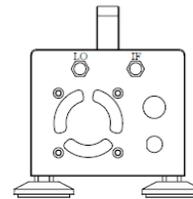
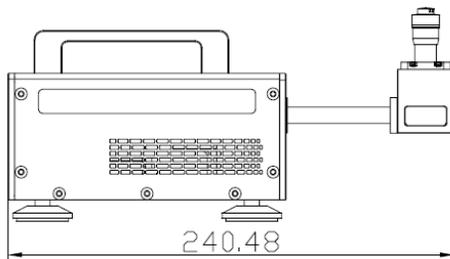
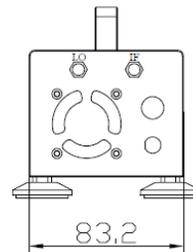
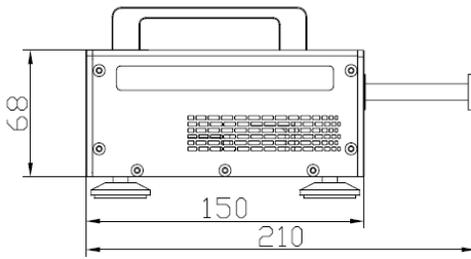
Parameter	Min	Typ	Max	Units
RF Input Frequency	140		220	GHz
LO Input Frequency	11.66		18.33	GHz
IF Output Frequency	DC		30	GHz
LO Input Power	+3	+5	+7	dBm
RF Input Power		-10	0	dBm
Conversion loss		10		dB
Multiplication Factor		12		

## 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 AC	

## 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* 68mm	

### Connector Information:

Parameter	Value
RF Input Connector	WR-05/UG-387
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-140220	G-band Receiver,140-220 GHz, Conversion Loss: 10dB typ.	Rev.1.1

### Components Included:

Part Number	Description	Quantity
TLACTDC-22012	AC-to-DC Power Adapter	1 PCS
Attenuator optional	140-220GHz	1 PCS