

G-Band Transmit Extender

140-220GHz /WR-05

Model: TURTE-140220N2

TURTE-140220N2 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
- Port Output Power (No Attenuation): -2dBm Typ
- Dynamic Range @ 10 Hz BW: 110dB Typ
- Unconditional stability

Applications:

- VNA Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	140		220	GHz
Test Port Output Power		-2		dBm
Dynamic Range @ 10Hz BW		110		dB
RF Input Frequency	11.66		18.33	GHz
RF Input Power	3	5	7	dBm
RF Multiplication Factor		12		
LO Input Frequency	11.66		18.33	GHz
LO Input Power	3	5	7	dBm
LO Multiplication Factor		12		
IF Frequency Range	1		1000	MHz
Stability @300Hz BW		±0.2		dB

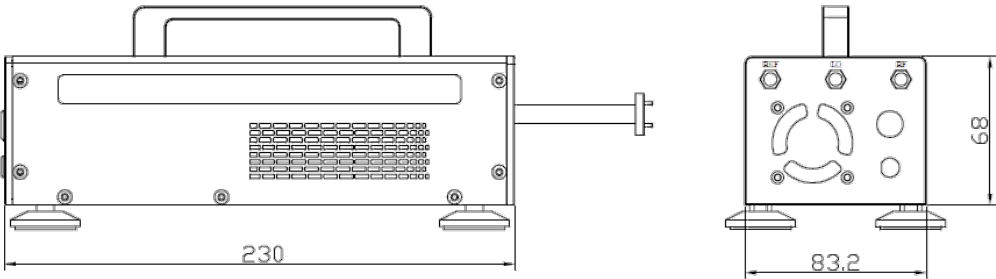
Mechanical Specifications:

Parameter	Value
RF/LO Input Connector	SMA Female
REF IF Output Connector	SMA Female
Test Port Connector	WR-05/UG-387/U
Power Supply Pin	FGG 0B 4 Core
Size	230*83.2*68mm

Absolute Maximum Ratings :

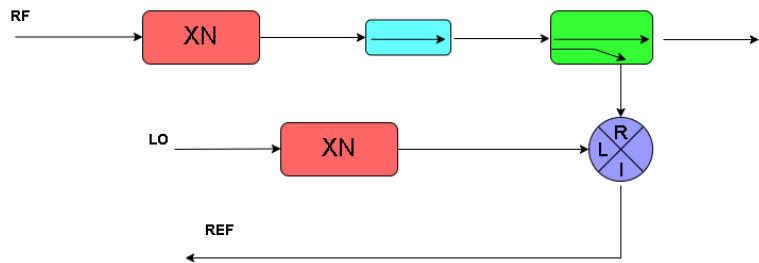
Description	Parameter	Units
RF/LO Port Damage Level	+10	dBm
Supply Bias Voltage	+240 V AC	
ESD sensitivity (HBm)	Class 0, passed 150V	

Outline Drawing: Unit:mm



TURTE-140220N2

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
TURTE-140220N2	G-band Transmit,140-220 GHz, Output Power:-2dBm typ.,Dynamic Range@ 10Hz BW:110dB typ.	Rev.1.1

Components Included:

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