

V-Band Full Waveguide Band Phase Noise Analyzer Down-Converter 50-75GHz /WR-15/

Model: TLPANA-050075-06-15

TLPANA-050075-06-15 is a V-Band phase noise analyzer (PNA) down-converter that converts millimeterwave(mmW) signals from a frequency range of 50 to 75GHz to the baseband at 10 MHz to 1.6 GHz.

Features:

- Ultra Wide Band: 50-75GHz
- Unconditional stability

Applications:

- Transmit Extension
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
RF Input Frequency range	50		75	GHz
LO Input Frequency	8.33		12.5	GHz
LO Input Power		15		dBm
LO Multiplication Factor	6			
IF Output Frequency range	0.01		1.6	GHz
Mixer Conversion Loss		8		dB
Harmonic Suppression		-20		dBc
Input P1dB		+10		dBm
Power Supply		220		V

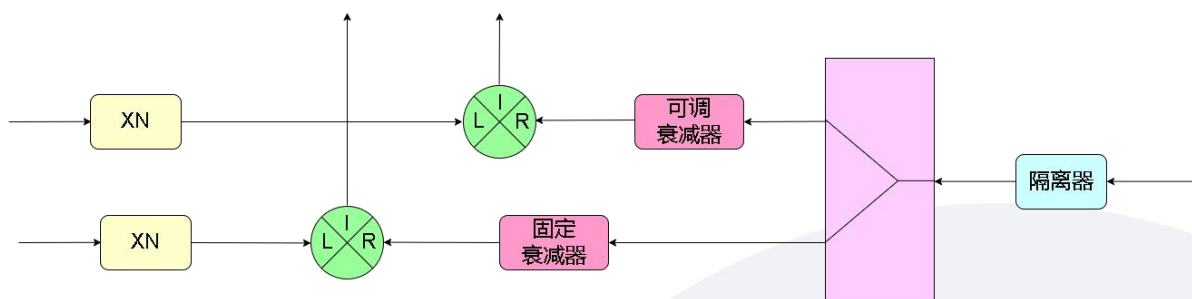
Mechanical Specifications:

Description	Parameter	Units
RF Input Connector	WR-15 UG-383/U	
LO Input Connector	SMA Female	
IF Output Connector	SMA Female	
Power Supply Pin	FGG 0B 4 Core	
Material	Al	
Finish	Gray spray paint	

Absolute Maximum Ratings :

Parameter	Value	Units
RF Input Power	+20	dBm
ESD sensitivity (HBM)	Class 0, passed 150V	
Supply Bias AC Voltage	240	V

Block Diagrams:



Envrionmental And Physical Characteristics:

Parameter	Min	Typ	Max	Units
Operating Temerature	-10		+50	°C
Storage Temerature	-50		+80	°C
Relative humidit	95			%
Altitude	10,000			feet
Shock / Vibration(MIL-STD-810F)	25g rms (15 degree 2KHz) endurance, 1 hour per axis			
Shock(non operating)	20G for 11msc half sin wave,3 axis both directions			

Ordering Information:

Part Number	Description	Revision
TLPANA-050075-06-15	V-Band Full Waveguide Band Phase Noise Analyzer Down-Converter	Rev.1.1

Components Included:

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

Notes:

1. Dimensions and specifications may be changed without prior notice.
2. Standard Warranty:three years.