

U-Band Frequency Extender 40-67GHz/1.85mm Female

Model: TLSE-040067-1430-1.85

TLSE-040067-1430-1.85 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 40-67 GHz.

Features:

- Frequency range: 40-67GHz
- Output Power: 14dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	40		67	GHz
Output Power		14		dBm
Input Frequency	10		16.75	GHz
Input Power	3	5	7	dBm
Harmonics Suppression		-30		dBc
Multiplication Factor		4		
Input VSWR		2		:1
Output VSWR		2		:1
Supply Voltage		220		V AC

Mechanical Specifications:

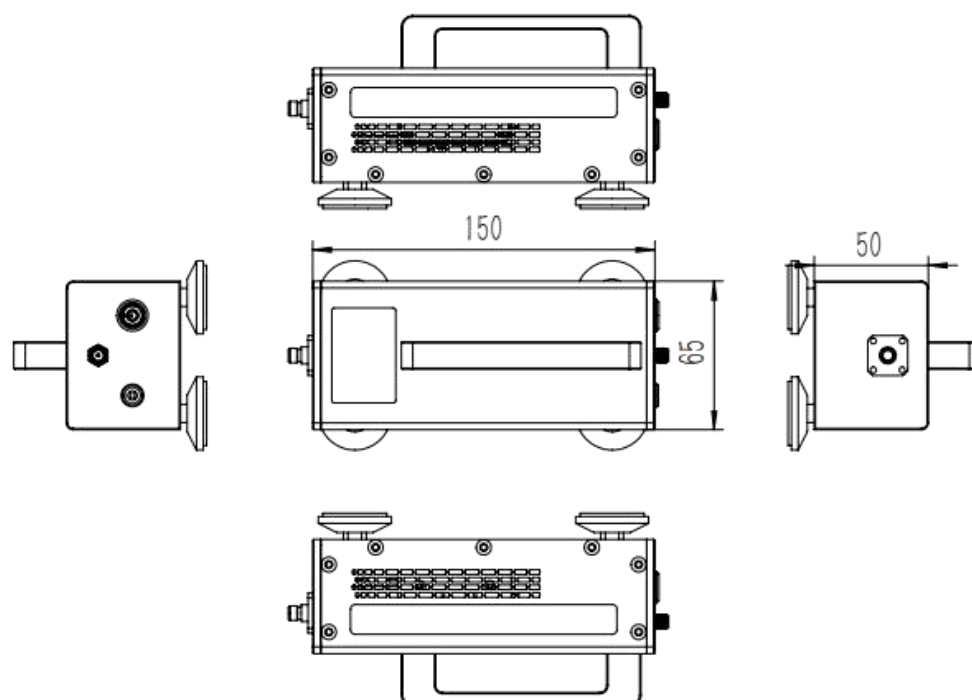
Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	1.85mm Female	
Power Supply Pin	FGG 0B 4 Core	
Size	150*65*50	mm

Absolute Maximum Ratings:

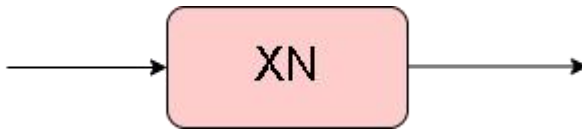
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

Outline Drawing:

Unit:mm; Tolerance:±0.1mm



Block Diagrams:



Environmental Conditions:

Parameter	Min	Typ	Max	Units
Operating Temperature	-10		+65	°C
Non-operating Temperature	-45		+85	°C
Relative humidity		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
TLSE-040067-1430-1.85	U-Band Frequency Extender,X4,40-67GHz, Output Power: 14dBm	Rev.1.0

Components Included:

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