

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

Model: TLSE-075110-30-10-HA

TLSE-075110-30-10-HA frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 75-110 GHz.

Features:

- Ultra Wide Band: 75-110 GHz
- Output Power : -10 ~ +20 dBm
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	75		110	GHz
Output Power	-10		20	dBm
Frequency Step		0.1		MHz
Switching time		≤ 200		us
Power Step		0.5		dB
Multiplication Factor		6		
Harmonic Suppression		-50		dBc
Spurious Suppression		-60		dBc
Power Supply		220		VDC

Mechanical Specifications:

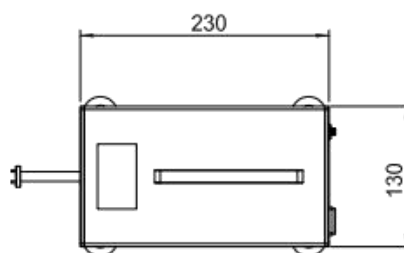
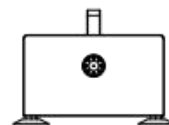
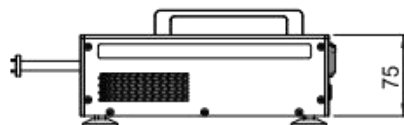
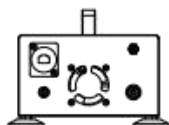
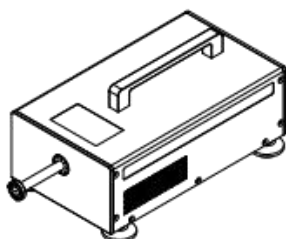
Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-10/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	230*130*75	mm

Absolute Maximum Ratings:

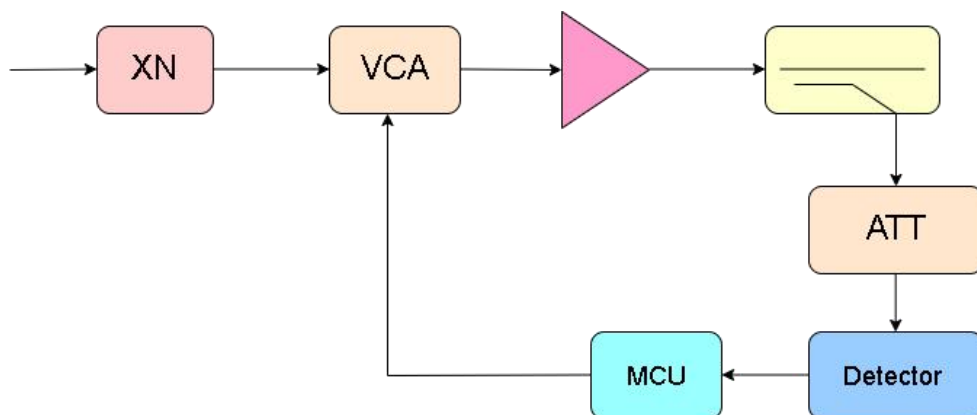
Parameter	Value
Supply Bias Voltage	+240 V AC
RF Input Power	+10 dBm
ESD sensitivity (HBm)	Class 0, passed 150V

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-075110-30-10-HA	W-Band Frequency Extender,X6,75-110GHz, Output Power: -10 ~ 20dBm	Rev.1.2

Components Included:

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