

E-Band Frequency Extender 60-90GHz /WR-12

Model: TLSE-060090-1330-12

TLSE-060090-1330-12 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 60-90 GHz.

Features:

- Ultra Wide Band: 60-90 GHz
- Output Power : 9 dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	60		90	GHz
Output Power		9		dBm
Dynamic Range (Optional mechanical Attenuator)		30		dB
Input Frequency	10		15	GHz
Input Power	3	5	7	dBm
Multiplication Factor		6		
Harmonic Suppression	32			dBc
Input VSWR		2		:1
Output VSWR		2		:1
power stability		±0.25		dB

Mechanical Specifications:

Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-12/UG-387/U	
Power Supply Pin	FGG 0B 4 Core	
Size	170*75*68	mm

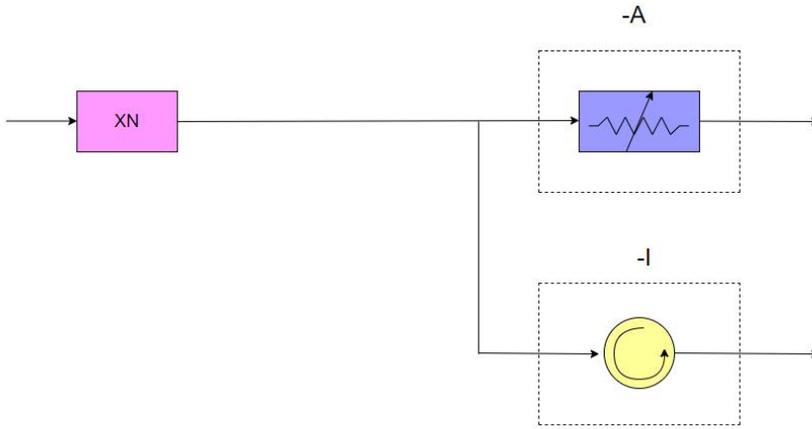
Absolute Maximum Ratings:

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

Outline Drawing:

Unit:mm

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			

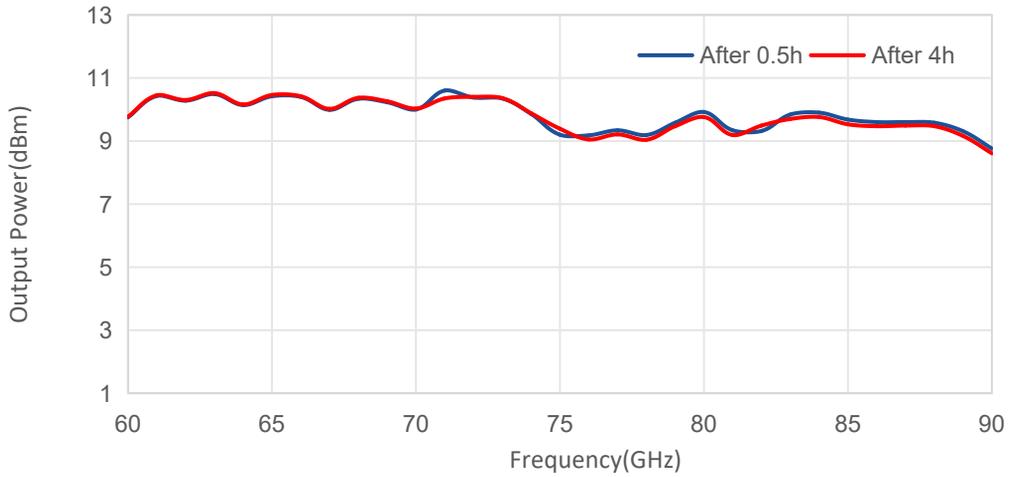
Ordering Information:

Part Number	Description	Option		Revision
		Optional Mechanical Attenuator	Isolation	
TLSE-060090-1330-12	E-Band Frequency Extender,X6,60-90GHz, Output Power: 9 dBm	-A	-I	Rev.1.2

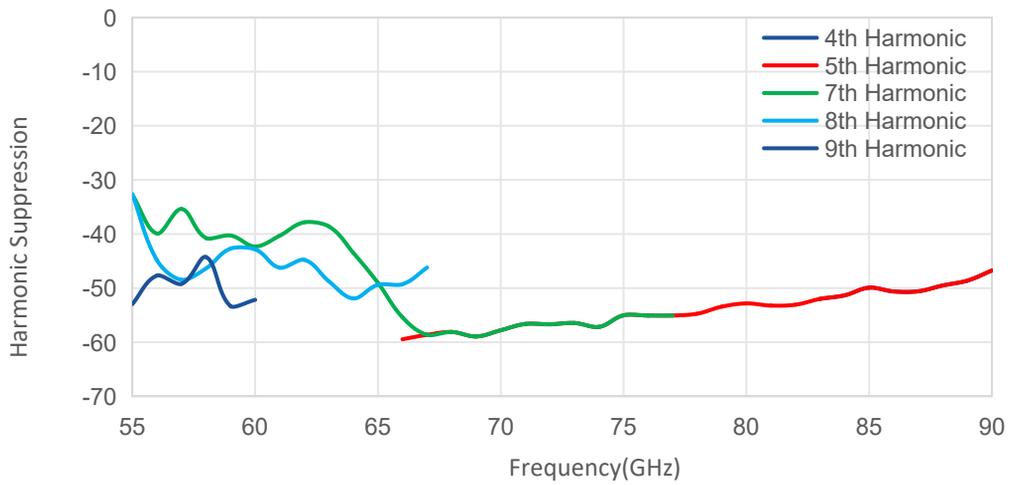
Components Included:

Typical Performance Data:

Output Power vs Frequency



Harmonic Suppression vs Frequency



Power Stability vs Frequency

