

Frequency Extender 645-685 GHz /WR-1.5

Model: TLSE-645685-0648-1.5

TLSE-645685-0648-1.5 frequency extenders are a dedicated Test & Measurement solution for extending the range of your signal source to 645-685 GHz.

Features:

- Ultra Wide Band: 645-685 GHz
- Output Power : -6 dBm Typ
- Low power consumption

Applications:

- Frequency Extension
- Antenna measurements
- Material characterisation

Electrical Characteristics:

Parameter	Min	Typ	Max	Units
Frequency range	645		685	GHz
Output Power		-6		dBm
Input Frequency	13.4		14.3	GHz
Input Power		7		dBm
Multiplication Factor		48		
AC Voltage		220		V

Mechanical Specifications:

Parameter	Value	Units
Input Connector	SMA Female	
Output Connector	WR-1.5/UG-387/U	
AC Bias	Power adapter: 100-240VAC	
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

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-645685-0648-1.5	Frequency Extender,X48, 645-685 GHz /WR-1.5 , Output Power: +7 dBm	Rev.1.2