

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 : 7 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 | | 7 | | dBm |
| Input Frequency | 13.4 | | 14.3 | GHz |
| Input Power | | -6 | | 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 | +0 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 |

Typical Performance Data:

