

### **SLB322 Series**

Compact 4oW Ku-Band Block-Up Converter

# The SLB322 Series 40W BUC from e2v is small and lightweight and is ideal for mobile applications



The SLB322 Series 40W BUC from e2v is small and lightweight BUC is ideal for mobile applications.

Designed to be mounted on the feed horn, the BUC has excellent efficiency and consumes less than 330W. The unit works on a DC power supply of 38V to 6oV. Innovative and efficient thermal design makes this BUC one of the smallest in the industry yet robust, reliable and rugged enough to withstand outdoor conditions. Advanced interface options are incorporated for ease of use including; RS232, RS485, Ethernet with embedded web page, SNMP.

The SLB322 is available with a range of options and backed by round-the-clock technical support.

### **Features**

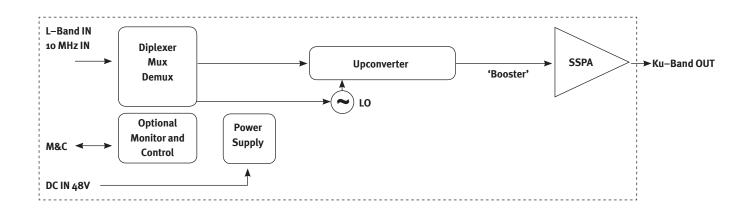
- Compact and lightweight
- Available in both Standard and Extended Ku-Band
- Feed mountable
- Forward power detection ability
- Intuitive monitoring and control through RS232/RS485 and Ethernet (SNMP and HTTP)
- Wide operating temperature range -40°C to +60°C
- Auto ranging 36V to 6oV DC Power Supply
- Automatic fault identification and alarm generation
- IP65 rated housing
- RoHS compliant

### **Quality Assurance**

100% of all BUCs go through stringent quality checks in addition to well-defined electrical stress screening to ensure operation in harsh outdoor environments. The BUCs are also subjected to seal test to test for water ingress.

Whilst e2v technologies has taken care to ensure the accuracy of the information contained herein it accepts no responsibility for the consequences of any use thereof and also reserves the right to change the specification of goods without notice. e2v technologies accepts no liability beyond that set out in its standard conditions of sale in respect of infringement of third party patents arising from the use of tubes or other devices in accordance with information contained herein.

## **SLB322 SERIES 40W BUC Technical Specification**



### **FREQUENCY RANGE**

 Sub-Band
 Input (MHz)
 Output (GHz)
 LO (GHz)

 Standard
 950 – 1450
 14.00 – 14.50
 13.05

 Extended
 950 – 1700
 13.75 – 14.50
 12.80

#### **TRANSMIT**

 $\begin{array}{lll} \textbf{Output Power (P}_{\text{SAT}}) & 46 \text{ dBm} \\ \textbf{Output Power (P}_{\text{LINEAR}}) & 44 \text{ dBm} \\ \textbf{Spectral Regrowth} & -30 \text{ dBc @ P}_{\text{LINEAR}} \end{array}$ 

at 1.0 x symbol rate for OQPSK or QPSK

Small Signal Gain 70 dB min

Gain Flatness±2.0 dB over the O/P frequency bandGain Variation±2.0 dB over the operating temperature range

Gain Control20 dB in steps of 0.5 dBSpuriousAccording to EN301486

Phase Noise @ Offset

 1kHz
 -73 dBc/Hz

 10kHz
 -83 dBc/Hz

 100kHz
 -93 dBc/Hz

 Input VSWR
 1,3:1

Output VSWR 1.25:1( with external circulator)

**Noise Power Density** 

Tx Band 70 dBW/4kHz Rx Band 142 dBW/4kHz

**DC POWER** 

Prime Power
38 V to 60 V DC
Power Consumption
330W (Typical @ P<sub>sar</sub>)

**INTERFACES** 

**IF Input Interface** N-type Female (50 ohm)

Output Interface WR 75G

**EXTERNAL REFERENCE** 

**Frequency** 10 MHz

Power -5 dBm to +5 dBm

External reference phase noise requirement @ frequency offset

1kHz -150 dBc/Hz 10kHz -155 dBc/Hz 100kHz -160 dBc/Hz

### **MONITOR & CONTROL**

Interface RS232/RS485 & Ethernet (SNMP & HTTP)

Monitor BUC Temperature

Status Alarm RF Output Power LED Status Indicator Attenuation

RF Output Mute

**1:1 Reduncancy** Optional external RCU

**MECHANICAL** 

Control

Dimensions200L x 130W x 130H mmWeight3.7kg (8.14 lbs)ColourWhite Powder Coat

**ENVIRONMENTAL** 

**Operating Temperature** -40°C to +60°C **Humidity** Up to 100%

Weather Protection to IP65

**COMPLIANCE STANDARD** 

**IEC 60950-1:2005+A1:2009** International Safety Standard for Information

Technology Equipment

**ESTI EN 301 489-12** Electromagnetic Compatibility and Radio

Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard for radio equipment and services; Part 12: Specific conditions for Very Small Aperture Terminal, Satellite Interactive Earth Stations operated in the frequency ranges between 4 GHz and 30 GHz in the fixed Satellite Service (FSS)

**ESTI EN 301 489-1** Electromagnetic Compatibility and Radio

Spectrum Matters (ERM); Electromagnetic Compatibility (EMC) Standard for Radio

**Equipment Services** 

FCC Part 15 Class B Two levels of radiation and conducted

emissions limits for unintentional radiators

(FCC Mark)