



# BUC

## ELEMENT SERIES

### KU-BAND 10W

### BUC-ELMTKU010



### NORSAT ELEMENT SERIES BUCS

Norsat Satellite Communication solutions are renowned for their high quality, reliability, and innovation. The Ku ELEMENT series offers small size and weight with a variety of frequency options. The KU ELEMENT series are RoHS compliant.

### FREQUENCY BANDS

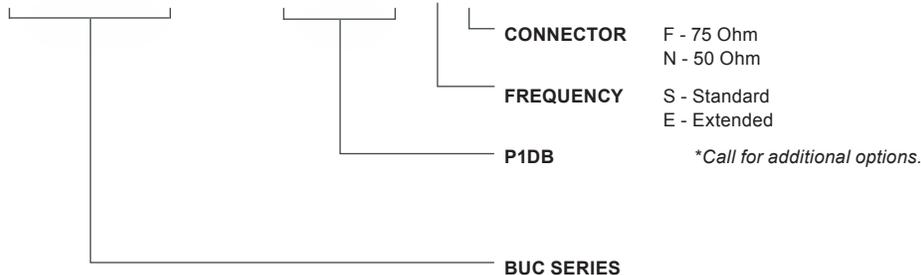
Model	BUC-ELMTKU010-S	BUC-ELMTKU010-E
Output frequency (Ghz)	14.0 – 14.5 GHz	13.75 – 14.5 GHz
L.O. frequency (GHz)	13.05 GHz	12.80 GHz
Input frequency (MHz)	950 – 1450 MHz	950 – 1700 MHz

### KEY FEATURES

- GaN Technology
- High linearity
- 18 frequency options
- RoHS Compliant

### HOW TO ORDER

## BUC-ELMTKU010-EF



# KU-BAND 10W BUC-ELMTKU010

## RF SPECIFICATIONS

<b>Output Power (P1db)</b>	40 dBm min
<b>External Reference</b>	10MHz
<b>Reference Power Level</b>	-5 dBm to +5dBm
<b>Phase Noise (SSB)</b>	-65 dBc/Hz at 100Hz -75 dBc/Hz at 1kHz -85 dBc/Hz at 10kHz -95 dBc/Hz at 100KHz
<b>Frequency Sense</b>	Non-inverted
<b>Linear gain</b>	67 dB
<b>Gain control</b>	15 dB in 0.5 dB steps
<b>Gain flatness</b>	+/- 4.0 dB p-p, max over full band +/- 1.5dB p-p over 54MHz
<b>Gain variation over temperature</b>	+/- 4.0 dB p-p over operating range

## ENVIRONMENTAL & PHYSICAL

<b>Temperature (operational)</b>	-40 C to +55 C
<b>Humidity (operational)</b>	0 to 100% condensing
<b>Dimensions (L x W x H)</b>	220 x 194.2 x 103.5 mm
<b>Weight</b>	4.5 kg
<b>Enclosed Accessories</b>	O-Ring (1 pc) Screws (4 pc)

## POWER

<b>Power requirements</b>	18~ 24, 36 ~ 60 VDC (opt. MS connector)
<b>Power Consumption</b>	100W max
<b>Internal Function</b>	Lock detector shuts off Tx should LO unlock

## INTERFACES

<b>Input VSWR</b>	2.0 : 1
<b>Output VSWR</b>	2.0 : 1
<b>Input Connector</b>	N: 50 Ω, F: 75 Ω
<b>Output Connector</b>	WR-75

## MECHANICAL DIAGRAM

