



# BUC

## ELEMENT SERIES

### KU-BAND 2W

### BUC-ELMTKU002



#### 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 that make it ideal for VSAT applications.

Stock units are available in standard and extended Ku-Band frequencies. Special order units are available in a wide variety of additional frequencies from 10.38 – 10.55GHz up to 17.7 -18.1 GHz.

#### FREQUENCY BANDS

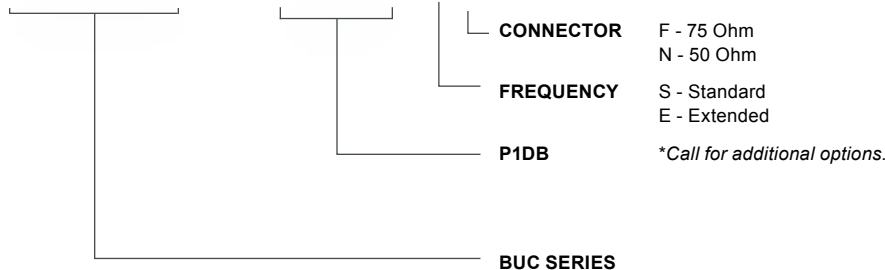
<b>Model</b>	BUC-ELMTKU002-S	BUC-ELMTKU002-E
<b>Output frequency (MHz)</b>	14.0 – 14.5 GHz	13.75 – 14.5 GHz
<b>L.O. frequency (GHz)</b>	13.05 GHz	12.80 GHz
<b>Input frequency (GHz)</b>	950 – 1450 MHz	950 – 1700 MHz

#### KEY FEATURES

- Small size, ideal for feed mounting
- 18 frequency options available
- RoHS Compliant

#### HOW TO ORDER

### BUC-ELMTKU002-EF



# KU-BAND 2W BUC-ELMTKU002

## RF SPECIFICATIONS

<b>Output Power (P1db)</b>	33 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>Linear gain</b>	55 dB
<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
<b>Gain variation over 24hrs</b>	+/- 0.5 dB max at constant temp
<b>Intermodulation</b> with 2 equal carriers at 3dB total power backoff from rated power	-25 dBc @ Plinear
<b>Spectral Regrowth (typical)</b> at 2db below rated output power at 1.0x symbol rate offset for OQPSK or QPSK	-26 dBc
<b>AM/PM Conversation</b> (up to 2 dB below rated Output Power)	2 deg/dB
<b>Max Input Power without damage</b>	13 dBm
<b>Output Spurious -In Band</b>	-60 dBc
<b>-Out Band</b>	-50 dBc
<b>Noise power density</b>	-90 dBm/Hz in Tx -156 dBm/Hz in Rx

## 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

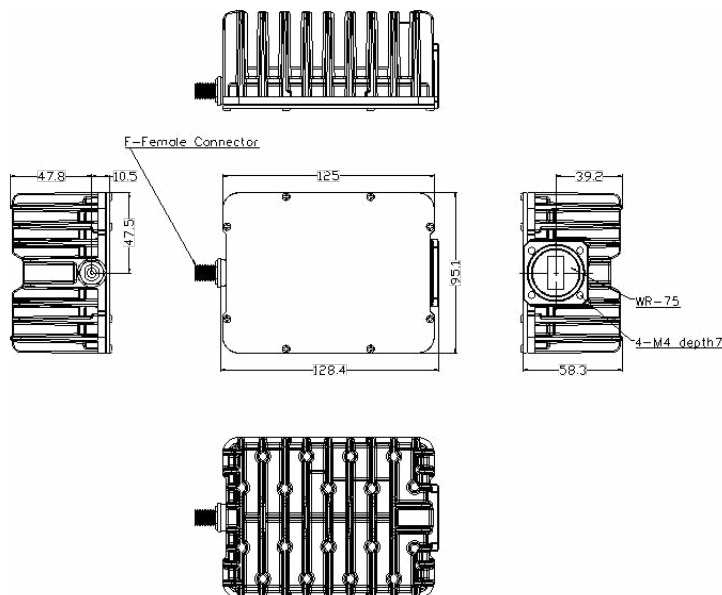
## ENVIRONMENTAL & PHYSICAL

<b>Temperature (operational)</b>	-40 C to +55 C
<b>Humidity (operational)</b>	0 – 100% condensing
<b>Dimensions (L x W x H)</b>	129 x 95 x 58 mm
<b>Weight</b>	700g
<b>Enclosed Accessories</b>	O-Ring (1 pc) Screws (4 pc)

## POWER

<b>Power requirements</b>	+15 to +24 VDC over IFL
<b>Power Consumption</b>	18W max

## MECHANICAL DIAGRAM



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