

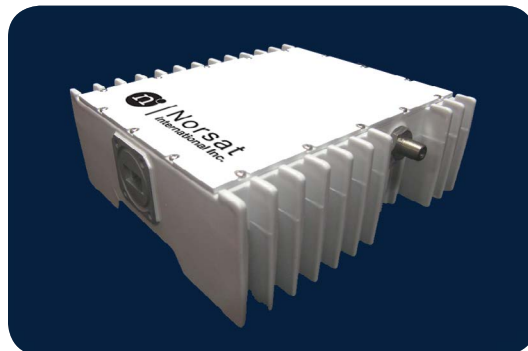


Norsat  
International Inc.

Innovative Communication Solutions



# BUC ELEMENT SERIES KU-BAND 6W BUC-ELMTKU006



## 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

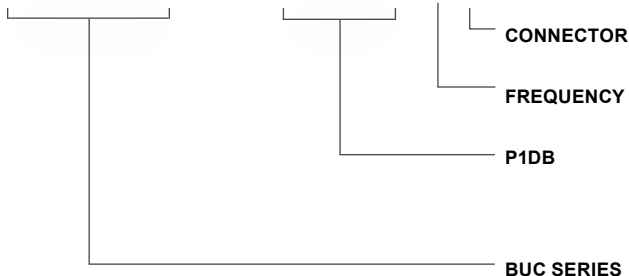
Model	BUC-ELMTKU006-S	BUC-ELMTKU006-E
Output frequency (Ghz)	14.0 – 14.5 GHz	13.75 – 14.5 GHz
L.O. frequency (GHz)	13.05 GHz	12.80 GHz
Input frequency (MHz)	950 – 1450 MHz	950 – 1700 MHz

## KEY FEATURES

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

## HOW TO ORDER

### BUC-ELMTKU006-EF



F - 75 Ohm  
N - 50 Ohm  
S - Standard  
E - Extended

*\*Call for additional options.*



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# KU-BAND 6W BUC-ELMTKU006

## RF SPECIFICATIONS

Output Power (P1db)	37.8 dBm min
External Reference	10MHz
Reference Power Level	-5 dBm to +5dBm
Phase Noise (SSB)	-65 dBc/Hz at 100Hz -75 dBc/Hz at 1kHz -85 dBc/Hz at 10kHz -95 dBc/Hz at 100KHz
Linear gain	60 dB
Gain flatness	+/- 4.0 dB p-p, max over full band +/- 1.5dB p-p over 54MHz
Gain variation over temperature	+/- 4.0 dB p-p over operating range
Gain variation over 24hrs	+/- 0.5 dB max at constant temp
Intermodulation with 2 equal carriers at 3dB total power backoff from rated power	-25 dBc @ Plinear
Spectral Regrowth (typical) at 2db below rated output power at 1.0x symbol rate offset for OQPSK or QPSK	-26 dBc
AM/PM Conversation (up to 2 dB below rated Output Power)	2 deg/dB
Max Input Power without damage	13 dBm
Output Spurious -In Band	-60 dBc
-Out Band	-50 dBc
Noise power density	-90 dBm/Hz in Tx -156 dBm/Hz in Rx

## INTERFACES

Input VSWR	2.0 : 1
Output VSWR	2.0 : 1
Input Connector	N: 50 $\Omega$ , F: 75 $\Omega$
Output Connector	WR-75

## ENVIRONMENTAL & PHYSICAL

Temperature (operational)	-40 C to +55 C
Humidity (operational)	0 – 100% condensing
Dimensions (L x W x H)	176 x 162 x 65 mm
Weight	1.8kg
Enclosed Accessories	O-Ring (1 pc) Screws (4 pc)

## POWER

Power requirements	+15 to +24 VDC over IFL
Power Consumption	48W max

## MECHANICAL DIAGRAM

