

# **Innovative Communication Solutions**

# BUC **ELEMENT SERIES KU-BAND 16W BUC-ELMTKU016**



#### NORSAT ELEMENT SERIES BUCS

Norsat Satellite Communcation 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-ELMTKU016-S BUC-ELMTKU016-E

**Output frequency (Mhz)** 14.0 - 14.5 GHz 13.75 - 14.5 GHz

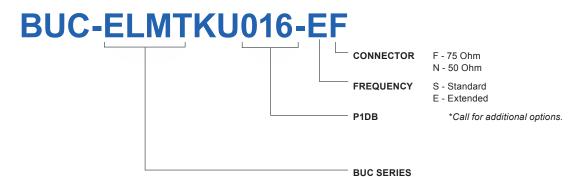
L.O. frequency (GHz) 13.05 GHz 12.80 GHz

Input frequency (GHz) 950 - 1450 MHz 950 - 1700 MHz

### **KEY FEATURES**

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

### **HOW TO ORDER**





**North America** +1 800 644 4562

**Asia Pacific** +1 604 821 2813 +44 1522 730 800

**Europe, Middle East & Africa** 

**South America** +1 604 821 2835

RoHS **Online** sales@norsat.com www.norsat.com

# **KU-BAND 16W BUC-ELMTKU016**

### **RF SPECIFICATIONS**

Output Power (P1dB)

**External Reference** 

Reference Power Level

Phase Noise (SSB)

Linear gain

Gain control

Gain flatness

Gain variation over temperature

Gain variation over 24hrs

Intermodulation

with 2 equal carriers at 3dB total power backoff from rated power

Spectral Regrowth (typical)

at 2db below rated output power at 1.0x symbol rate offset for OQPSK or QPSK

AM/PM Conversation

(up to 2 dB below rated Output Power)

Max Input Power without damage **Output Spurious -In Band** 

-Out Band

Noise power density

42 dBm min

10MHz

-5 dBm to +5dBm

-65 dBc/Hz at 100Hz

-75 dBc/Hz at 1kHz

-85 dBc/Hz at 10kHz

-95 dBc/Hz at 100KHz

70 dB

15 dB in 0.5 dB steps

< 4.0 dB pp over full band

< 2.0 dB pp over any 54MHz band

< 4.0 dB p-p over operating range

+/-0.5 dB max at constant temp

-25 dBc

-26 dBc

2 deg/dB

13 dBm

-60 dBc

-50 dBc

-90 dBm/Hz in Tx

-156 dBm/Hz in Rx

# **ENVIRONMENTAL & PHYSICAL**

Temperature (operational)

-40 C to +55 C

**Humidity (operational)** Dimensions (L x W x H) 0 - 100% condensing 160 x 116 x 90mm

Weight

**Enclosed Accessories** 

2.1 kg

O-Ring (1 pc) Screws (4 pc)

## **POWER**

Power requirements

**Power Consumption** 

**Power Connector** M+C Connector

+36 to +60 VDC

160W max

MS3112E 12-3P

MS3112E -12-10P

M + C

Protocol

Control

Ethernet Mute, Gain

Monitor

Mute, Temp, PLL Lock,

Output power, Gain

## **MECHANICAL DIAGRAM**

# **INTERFACES**

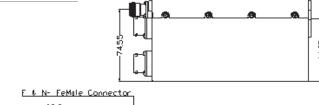
Input VSWR **Output VSWR** 

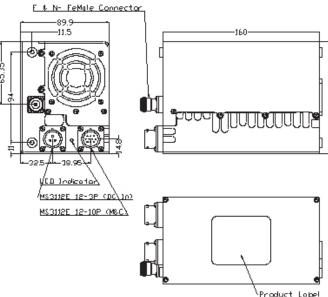
2.0:1

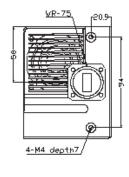
**Input Connector Output Connector** 

2.0:1

N: 50  $\Omega$ , F: 75  $\Omega$ WR-75









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