



Norsat  
International Inc.

Innovative Communication Solutions

# BUC

## KA-BAND 16W

### ELMTBKA016

#### ELEMENT SERIES

#### SPECIFICATIONS

|                                  |                                                                                                                   |
|----------------------------------|-------------------------------------------------------------------------------------------------------------------|
| Output Power (P <sub>sat</sub> ) | 42 dBm min.                                                                                                       |
| Plinear*                         | 39 dBm min.                                                                                                       |
| Phase Noise (SSB) max.           | -73 dBc/Hz at 1 kHz<br>-83 dBc/Hz at 10 kHz<br>-93 dBc/Hz at 100 kHz<br>-103 dBc/Hz at 1 MHz                      |
| Linear Gain                      | 65 dB typ., 60 dB min., 70 dB max.                                                                                |
| Gain Flatness:                   | <b>Over Full Band</b> ≤ 4.0 dB p-p<br><b>Over Any 40 MHz</b> ≤ 1.0 dB p-p<br><b>Over Temperature</b> ≤ 3.0 dB p-p |
| Output Spurious:                 | <b>In-Band</b> ≤ -55 dBc<br><b>Out-of-Band</b> ≤ -55 dBc                                                          |
| Noise Power Density              | -70 dBm/Hz in Tx<br>-157 dBm/Hz in Rx                                                                             |
| Input VSWR                       | 2.0 : 1 max.                                                                                                      |
| Output VSWR                      | 2.5 : 1 max.                                                                                                      |

\*as per MIL-STD 188



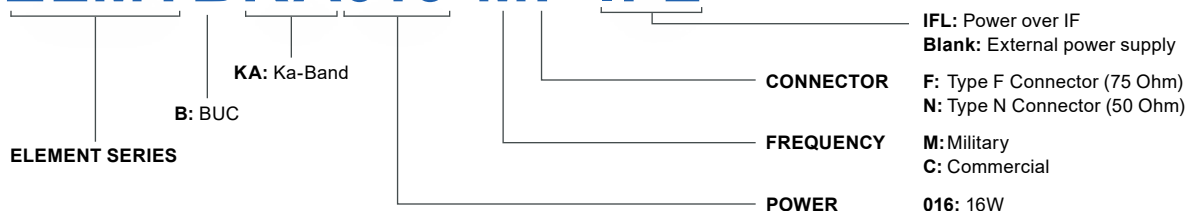
|                        |                                                                       |
|------------------------|-----------------------------------------------------------------------|
| Input Voltage          | +28V to +72V DC                                                       |
| Power Consumption      | 120W max.                                                             |
| Power Connector        | MIL-26482 Series 1 receptacle<br>Shell Size 12, 4 Pins<br>PT02E-12-4P |
| Input (waterproof)     | Type F Connector (75 Ohm)<br>Type N Connector (50 Ohm)                |
| Output                 | WR-28 waveguide grooved                                               |
| Dimensions (L x W x H) | 168 mm x 108 mm x 78 mm<br>(6.61 in x 4.24 in x 3.08 in)              |
| Weight                 | 1.5 kg (3.31 lb)                                                      |
| Operating Temperature  | -40 to +60°C                                                          |
| Storage Temperature    | -50 to +70°C                                                          |
| Humidity               | 8-100% condensing                                                     |
| External Ref Freq      | 10 MHz (sine-wave), -5 to +5 dBm                                      |
| Enclosed Accessories   | Screws, Gasket, Mating Connectors<br>for Power and M&C                |
| Protection Rating      | IP55                                                                  |

#### FREQUENCY BANDS

|                          | C: Commercial | M: Military |
|--------------------------|---------------|-------------|
| Transmit Frequency (GHz) | 29.0 - 30.0   | 30.0 - 31.0 |
| L.O. Frequency (GHz)     | 28.05         | 29.05       |
| IF Frequency (MHz)       | 950-1950      | 950-1950    |

#### HOW TO ORDER

## ELMTBKA016-MF-IFL



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# KA-BAND 16W BUC: ELMTBKA016

## MONITOR & CONTROL

|                           |                                                                                        |
|---------------------------|----------------------------------------------------------------------------------------|
| <b>M&amp;C Interface</b>  | RS-485 & RS-232                                                                        |
| <b>M&amp;C Connector:</b> | MIL-26482 Series 1 receptacle<br>Shell Size 12, 10 Pins<br>PT02E-12-10P                |
| <b>Mute Control:</b>      | Fully configurable<br>(mute enable: high or low,<br>mute default: enabled or disabled) |
| <b>Low</b>                | 0.0 - 0.8V                                                                             |
| <b>High</b>               | 3.0 - 5.0V                                                                             |

## OPTIONAL ACCESSORIES

|                            |                                |
|----------------------------|--------------------------------|
| <b>Power Supply</b>        | PS300-AT1-(NA/UK/EU/IEC/CN/AU) |
| <b>M&amp;C Cable (10m)</b> | CABLEM+C-AT10                  |
| <b>DB9 to USB Adaptor</b>  | USB-RS485                      |

## MECHANICAL DIAGRAM

