



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

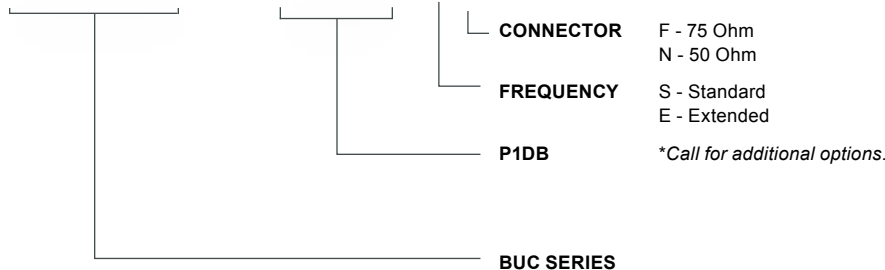
| | | |
|-------------------------------|-----------------|------------------|
| Model | BUC-ELMTKU002-S | BUC-ELMTKU002-E |
| Output frequency (MHz) | 14.0 – 14.5 GHz | 13.75 – 14.5 GHz |
| L.O. frequency (GHz) | 13.05 GHz | 12.80 GHz |
| Input frequency (GHz) | 950 – 1450 MHz | 950 – 1700 MHz |

KEY FEATURES

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

HOW TO ORDER

BUC-ELMTKU002-EF



KU-BAND 2W BUC-ELMTKU002

RF SPECIFICATIONS

| | |
|--|--|
| Output Power (P1db) | 33 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 | 55 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 Ω, F: 75 Ω |
| Output Connector | WR-75 |

ENVIRONMENTAL & PHYSICAL

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

POWER

| | |
|---------------------------|-------------------------|
| Power requirements | +15 to +24 VDC over IFL |
| Power Consumption | 18W max |

MECHANICAL DIAGRAM

