



Buc-c04 v2



BUC C-band 4W v2 is BUC which operates with up to 25 carriers. Fixed output power P1dB 4 W (400 mW ALC power). Inbuilt reference 10MHz and ALC with 25 dB range. At the rear side BUC has LEDs status indication. The device has integrated matched CWT.

The Block Up-Converter C-band 4W (BUC-C04 v2) is designed for operation in MMDS TV broadcasting systems according to DVB-S/S2, DVB-C or DVB-T standards and provides up to 25 carriers output. This device has integrated matched CWT and can be used with regular RRL or broadcast antennas. Supported modulation types are 16APSK, 256QAM or COFDM. The local oscillator is locked by PLL with internal frequency reference and has the best linearity parameters to ensure the stability of the output frequency and low IMD3 level - very important parameters for high quality modulation. The BUC-C04 v2 provides 4000 - 4200 MHz (or any 200 MHz in C-band by order) output frequencies for 470 - 670 MHz (other UHF or L-band option by order) input frequencies.

KEY FEATURES:

- Integrated matched CWT (Coaxial waveguide transition)
- Output power: 4W P1dB minimum
- Output frequencies: 4000 - 4200 MHz (or any 200 MHz in C-band by order)
- Input frequencies: 470 - 670 MHz (other UHF or L-band option by order)
- Min. gain: 60 dB
- Highly stable Internal reference
- LO is locked by PLL with an internal frequency reference.
- The lowest IMD3 level at ALC Output Power: -45dBc max
- Operates up to 25 carriers
- 256QAM and COFDM are supported
- Designed for operation in MMDS TV broadcasting systems

| Input parameters: | |
|------------------------------|---|
| Input Frequency range | 470 - 670 MHz (other UHF or L-band option by order) |
| Input impedance | 50 Ohm |
| Input level, max | -10 dBm |
| Input VSWR, max | 1.5 |
| Input interface | N-type Female |
| ALC rage, min | 25 dB |
| ALC threshold level | -35 dBm |
| Local Oscillator: | |
| LO frequency | 3530 MHz (or by order) |

| | |
|-------------------------------------|---|
| LO Phase noise: | |
| @1 kHz | -80 dBc/Hz |
| @10 kHz | -90dBc/Hz |
| @100 kHz | -100dBc/Hz |
| LO instability | ± 2ppm |
| Output parameters: | |
| Output frequency range | 4000 – 4200 MHz (or any 200 MHz in C-band by order) |
| Output Power @P1dB | 4 W |
| ALC Output Power | 400 mW |
| Gain, min | 60 dB |
| IMD3 level at ALC Output Power, max | -45 dBc |
| Output interface | Waveguide WR229, Flange PDR40 |
| Output VSWR, max | 1.3 |
| Frequency Response: | |
| Flatness over Full Band | ±1 dB |
| Spurious: | |
| In-band @P1dB, max | -50 dBc |
| Out-Band, max | -60 dBc |
| LO leakage at ALC output power, max | 40 dBm |
| Image rejection, min | 60 dB |
| Power Supply: | |
| Input voltage | 18 VDC – 30 VDC, nominal 24 VDC |
| Power consumption, max | 17 W |
| Environmental: | |
| Operating temperature | -40°C to +50°C (-40°F to +122°F) |
| Storage temperature | -60°C to +80°C (-76°F to +176°F) |
| Operating humidity | 100%, non-condensing |
| Mechanical | |
| Dimensions (W x H x D) | 130x80x175 mm |
| Weight | 1.8 kg |

Taking into consideration that we (ROKS PrJSC) are developer and system integrator, also do not stop on our technical growth and improvement, know that view of all our devices and equipment including their technical parameters may be different from pictures presented on website and parameters listed on each device webpage.

Note! All details customer has to confirm in advance during ordering and before payment. Those parameters that were not specified and / or were not agreed while ordering will be implemented as basic at the discretion of the manufacturer. Each our customer has 1.5 year warranty and 7 year aftersales support for whole range of our products.