

BUC-KU02-13.05 V2.0



BUC-Ku02-13.05

2 W (

ALC: 200 mV) **13.05 GHz**.

25UC 10 MHz.

ALC 25 dB.

(II

LED

2 W Ku-band block up-converter with LO of 13.05 GHz BUC-Ku02-13.05-v2.0 is designed for MVDS TV broadcasting systems application in accordance with DVB-S/S2 or DVB-C standards (use “Customized” button to choose needed parameters) and operates with up to 25 carriers. BUC-Ku02-13.05-v2.0 has output flange of PBR120 type and can be used with regular radio-relay link ([directional](#)) or broadcast ([sector](#) and [OMNI](#)) antennas. BUC-Ku02-13.05-v2.0 supports all modulation types up to 32APSK and 256QAM (you may choose the modulation type while filling the “customized equipment” form). BUC-Ku02-13.05-v2.0 has the best linearity parameters to ensure the stability of the output frequency and low IMD3 level (these parameters are very important for high quality modulation, therefore the local oscillator of BUC-Ku02-13.05-v2.0 is locked by PLL with internal frequency reference). BUC-Ku02-13.05-v2.0 provides 14.0 – 15.0 GHz output frequency range (bandwidth in Ku-band) for 950-1950 MHz input frequency range (bandwidth in L-band).

LO: 13.05 GHz **IN:** 950 – 1950 MHz **OUT:** 14.0 – 15.0 GHz

KEY FEATURES:

- Output flange: PBR120
- Output power (P1dB, min): 2 W
- Output frequency range: 14.0 – 15.0 GHz
- Input frequency range: 950 – 1950 MHz
- Gain (min): 53 dB
- Highly stable internal frequency reference
- LO is locked by PLL with internal frequency reference
- IMD3 level at ALC output power (the lowest value): -37 dBc max
- Operates with up to 25 carriers
- Supported modulation types: up to 32APSK and 256QAM

:	
	950 – 1950 MHz
	50 Ohm
	-12 dBm
VSWR	1.5
	N-type Female
ALC	25 dB
ALC	-30 dBm
:	
LO	13050 MHz
LO:	
@1 kHz	-80 dBc/Hz
@10 kHz	-85 dBc/Hz
@100 kHz	-100 dBc/Hz

LO	± 2 ppm
:	
	14000 – 15000 MHz
@P1dB	2 W
ALC	200 mW
	53 dB
IMD3	-37 dBc ALC
	Waveguide WR75, Flange PBR120
VSWR	2
:	
	± 1.5 dB
:	
@P1dB	-55 dBc
	-30 dBm
LO	-40 dBc
	60 dB
:	
	18 – 30 VDC, nominal 24 VDC
	15 W
:	
	-40 to +50 (-40 to +122)

	-60 to +80 (-76 to +176)
	100%, non-condensing
	:
(W x H x D)	104x89x157 mm
	1.15kg

(UMT LLC)

!

/