

BUC-KU02-13.05



BUC-Ku02-13.05 is block up-converter with fixed output power P1dB 2 W (ALC power: 200 mW) and LO of 13.05 GHz.

Our BUC operates with up to 25 carriers and has built-in reference of 10 MHz;

and ALC with 25 dB range;

+ LED status indication at the rear side.

2 W Ku-band block up-converter with LO of 13.05 GHz BUC-Ku02-13.05 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 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 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 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 is locked by PLL with internal frequency reference). BUC-Ku02-13.05 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

Input parameters:	
Input frequency range	950 - 1950 MHz
Input impedance	50 Ohm
Input level, max	-12 dBm
Input VSWR, max	1.5

Input interface	N-type Female	
ALC range, min	25 dB	
ALC threshold level	-30 dBm	
Local oscilator:		
LO frequency	13050 MHz	
LO phase noise:		
@1 kHz	-80 dBc/Hz	
@10 kHz	-85 dBc/Hz	
@100 kHz	-100 dBc/Hz	
LO instability	± 2 ppm	
Output parameters:		
Output frequency range	14000 - 15000 MHz	
Output power @P1dB	2 W	
ALC output power	200 mW	
Gain, min	53 dB	
IMD3 level at ALC output power, max	-37 dBc	
Output interface	Waveguide WR75, Flange PBR120	
Output VSWR, max	2	
Frequency:	response:	
Flatness over Full Band	± 1.5 dB	
Spuri		
In-band @P1dB, max	-55 dBc	
Out-Band, max	-30 dBm	
Out-Band, max LO leakage at ALC output power, max		
,	-30 dBm	
LO leakage at ALC output power, max	-30 dBm -40 dBm 60 dB	
LO leakage at ALC output power, max Image rejection, min	-30 dBm -40 dBm 60 dB	
LO leakage at ALC output power, max Image rejection, min Power s Input voltage Power consumption, max	-30 dBm -40 dBm 60 dB upply: 18 - 30 VDC, nominal 24 VDC 15 W	
LO leakage at ALC output power, max Image rejection, min Power s Input voltage Power consumption, max Environn	-30 dBm -40 dBm 60 dB upply: 18 - 30 VDC, nominal 24 VDC 15 W nental:	
LO leakage at ALC output power, max Image rejection, min Power s Input voltage Power consumption, max Environm Operating temperature	-30 dBm -40 dBm 60 dB upply: 18 - 30 VDC, nominal 24 VDC 15 W nental: -40°C to +50°C (-40°F to +122°F)	
LO leakage at ALC output power, max Image rejection, min Power s Input voltage Power consumption, max Environn	-30 dBm -40 dBm 60 dB upply: 18 - 30 VDC, nominal 24 VDC 15 W nental: -40°C to +50°C (-40°F to +122°F) -60°C to +80°C (-76°F to +176°F)	
LO leakage at ALC output power, max Image rejection, min Power s Input voltage Power consumption, max Environ Operating temperature Storage temperature Operating humidity	-30 dBm -40 dBm 60 dB upply: 18 - 30 VDC, nominal 24 VDC 15 W nental: -40°C to +50°C (-40°F to +122°F) -60°C to +80°C (-76°F to +176°F) 100%, non-condensing	
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Taking into consideration that we (UMT LLC) 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.