

BUC-KU01-11.3



BUC-Ku01-11.3 is block up-converter with fixed output power P1dB **1 W** (ALC power: 100 mW) and LO of **11.3 GHz**.

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

has ALC with 25 dB range;

+ LED status indication at the rear side.

1 W Ku-band block up-converter with LO of 11.3 GHz BUC-Ku01-11.3 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-Ku01-11.3 has output flange of PBR120 type and can be used with regular radio-relay link (directional) or broadcast (sector and OMNI) antennas. BUC-Ku01-11.3 supports all modulation types up to 32APSK and 256QAM (you may choose the modulation type while filling the "customized equipment" form). BUC-Ku01-11.3 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-Ku01-11.3 is locked by PLL with internal frequency reference). BUC-Ku01-11.3 provides 12.25 - 13.25 GHz output frequency range (bandwidth in Ku-band) for 950-1950 MHz input frequency range (bandwidth in L-band).

LO: 11.3 GHz **IN**: 950 - 1950 MHz **OUT**: 12.25 - 13.25 GHz

KEY FEATURES:

• Output flange: PBR120

• Output power (P1dB, min): 1 W

Output frequency range: 12.25 - 13.25 GHz
Input frequency range: 950 - 1950 MHz

• Gain (min): 47 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	-2 dBm
Input VSWR, max	1.5

Input interface	N-type Female
ALC range, min	25 dB
ALC threshold level	-27 dBm
Local oscilator:	
LO frequency	11.3 GHz
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	12.25 - 13.25 GHz
Output power @P1dB	1 W
ALC output power	100 mW
Gain, min	47 dB
IMD3 level at ALC output power, max	-37 dBc
Output interface	Waveguide WR75, Flange PBR120
Output VSWR, max	2
Output VSWR, max Frequency res	
Frequency res	ponse: ± 1.5 dB
Frequency res	ponse: ± 1.5 dB
Frequency res	ponse: ± 1.5 dB
Frequency res Flatness over Full Band Spurious	ponse: ± 1.5 dB
Frequency res Flatness over Full Band Spurious In-band @P1dB, max	ponse: ± 1.5 dB s: -55 dBc
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max	ponse: ± 1.5 dB 5: -55 dBc -30 dBm
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max	# 1.5 dB = 1.5 dBc -55 dBc -30 dBm -40 dBm 60 dB
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min	# 1.5 dB = 1.5 dBc -55 dBc -30 dBm -40 dBm 60 dB
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max	ponse: ± 1.5 dB -55 dBc -30 dBm -40 dBm 60 dB ply: 18 - 30 VDC, nominal 24 VDC 7 W
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage	### 1.5 dB ### 1.
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max	ponse: ± 1.5 dB -55 dBc -30 dBm -40 dBm 60 dB ply: 18 - 30 VDC, nominal 24 VDC 7 W
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max Environment	## 1.5 dB ## 1.5 dB ## 1.5 dB ## -55 dBc ## -30 dBm ## -40 dBm ## 60 dB ## ply: ## 18 - 30 VDC, nominal 24 VDC ## 7 W ## ntal:
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max Environment Operating temperature Storage temperature Operating humidity	### 1.5 dB ### 1.
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max Environment Operating temperature Storage temperature Operating humidity Mechanic	# 1.5 dB # 1.5 dB -55 dBc -30 dBm -40 dBm 60 dB Ply: 18 - 30 VDC, nominal 24 VDC 7 W Tal: -40°C to +50°C (-40°F to +122°F) -60°C to +80°C (-76°F to +176°F) 100%, non-condensing al:
Frequency res Flatness over Full Band Spurious In-band @P1dB, max Out-Band, max LO leakage at ALC output power, max Image rejection, min Power sup Input voltage Power consumption, max Environment Operating temperature Storage temperature Operating humidity	### 1.5 dB ### 1.

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.