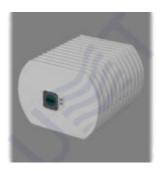


## BUC-K-4-18.75



BUC-K-4-18.75 is block up-converter with fixed output power P1dB 4 W (ALC power: 400 mW) and LO of 18.75 GHz.

BUC-K-4-18.75 is designed for MVDS TV broadcasting systems application in accordance with DVB-S/S2 or DVB-C and operates with up to 25 carriers. BUC-K-4-18.75 has output flange of PBR220 type (in accordance with WR42) and can be used with regular radio-relay link (directional) or broadcast (sector and OMNI) antennas.

BUC-K-4-18.75 supports all modulation types up to 32APSK and 256QAM. BUC-K-4-18.75 has the best linearity parameters to ensure the stability of the output frequency and low IMD3 level. BUC-K-4-18.75 has input frequency range of 950-1450 MHz (L-band) and provides 19.7-20.2 GHz output frequency range (K-band).

Input parameters		
Input frequency range, MHz	950 – 1450	
Input impedance, Ohm	50	
Input level, max, dBm	-2	
Input VSWR, max	1.5	
Input interface	N-type, female	
ALC range, min, dB	25	

ALC threshold level, dBm	-27	
Local oscillator		
LO frequency, GHz	18.75	
LO phase noise, dBc/Hz :		
@1 kHz	-80	
@10 kHz	-85	
@100 kHz	-100	
LO instability, ppm	± 2	
Output parameters		
Output frequency range, GHz	19.7-20.2	
Output power @P1dB, W	4	
ALC output power, mW	400	
Gain, min, dB	47	
IMD3 level at ALC output, dBc power, max	-37	
Output interface	waveguide WR42, flange PBR220	
Output VSWR, max	2	
Frequency response		
Flatness over Full Band, dB	± 1.5	
Spurious		
In-band P1dB, max, dBc	-55	
Out-Band, max, dBm	-30	

LO leakage at ALC output, dBm power, max	-40	
Image rejection, min, dB	60	
Power supply		
Input voltage, VDC	18-30 (nominal 24)	
Power consumption, max, W	30	
Environmental Environmental		
Operating temperature, <sup>o</sup> C	-40 +50	
Storage temperature, °C	-60 +80	
Operating humidity, %	100 (non-condensing)	
Mechanical		
Dimensions (W x H x D), mm	121×118×88	
Weight, kg	1.25	

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.