

BUC-KU40-10.75 + IP CTRL



BUC-Ku40-10.75 + IP Ctrl is block up-converter with fixed output power P1dB **40 W** (Output Power (P_{sat}) 46 dBm) and LO of **10.75 GHz**.

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

and **ALC** adjustment level range (nominal) -9 ... +4 dB from **P_{ALC}**;

+ **LED status** indication at the rear side.

- : PBR120
- (): 40
- LO : 8.8 9.75 10.6 10.75 10.8 11.3 11.8 12.8 13.05 ()
- : 800-1000 Ku (10-15)
- : 950 – 1750 (950-1950)
- (): 71
-
- LO PLL
- IMD3 ALC (): -37
- 20
- : 32APSK

Input parameters:

Input Frequency range	950 – 1750 MHz (950-1950 MHz by order)
Input impedance	50 Ohm

Input level, max	-15 dBm	
Input VSWR, max	1.5	
Input interface	N-type Female	
ALC range, min	25 dB	
Local Oscillator:		
LO frequency	10750 MHz (or by order)	
LO Phase noise:	@1 kHz	-80 dBc/Hz
	@10 kHz	-85dBc/Hz
	@100 kHz	-100dBc/Hz
LO instability	± 2 ppm	
Output parameters:		
Output frequency range	11700 – 12500 MHz (or by order)	
Output Power P_{sat}	46 dBm	
ALC Output Power with adjustment, P_{ALC}	36 dBm*	
ALC adjustment level range (nominal)	-9 ... +4 dB from P_{ALC}	
Gain, min	72 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	

Spurious:

In-band P_{sat} , max	-55 dBc
Out-Band, max	-30 dBm
LO leakage at ALC output power, max	-40 dBm
Image rejection, min	60 dB

Power supply:

Input voltage	20 VDC – 55 VDC, nominal 48 VDC
Power consumption, max	< 100 W

Interfaces:

IF input connector: N-type female / RF output connector: WR75 (PBR120)
DC connector: C90-3102R10SL-4P / Monitor & Control connector: UTS014E19P
Monitor & Control: Step level for ALC, Ethernet
LED indicator: Green – OK, blink Green – MUTE, Yellow – AGC active, Red – Alarm

Environmental:

Operating temperature	-30 to +55
Storage temperature	-40 to +70
Operating humidity	100%, non-condensing

Mechanical:

Dimensions	260x135x92mm
Weight, max	5 kg

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.*