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 $\mathbf{P_{ALC}}$;

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

- Output flange: PBR120
- Output power (Psat, min): 40 W
- Any LO frequency by order: 8.8, 9.75, 10.6, 10.75, 10.8, 11.3, 11.8, 12.8, 13.05 (or other by request)
- Output frequency range: any 800-1000 MHz in Ku-band (10-15 GHz) by order
- Input frequency range: 950 – 1750 MHz (950-1950 MHz by order)
- Gain (min): 71 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 20 carriers
- Supported modulation types: up to 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	± 2ppm
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	260x135x92 mm
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.