TCKU2W



- Ku TCKu2W – RF

TCKu2W UMT LLC - Ku

IF 950–1700 MHz 25 MHz RF SMA 50

2 W Ku-band block up-converter with LO of 9.75 GHz BUC-Ku02-9.75-v2.0 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-Ku02-9.75-v2.0 has output flange of PBR120 type and can be used with regular radio-relay link (directional) or broadcast (sector and OMNI) antennas. BUC-Ku02-9.75-v2.0 supports all modulation types up to 32APSK and 256QAM (you may choose the modulation type while filling the "customized equipment" form). BUC-Ku02-9.75-v2.0 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-Ku02-9.75-v2.0 is locked by PLL with internal frequency reference). BUC-Ku02-9.75-v2.0 provides 10.70 – 11.70 GHz output frequency range (bandwidth in Ku-band) for 950-1950 MHz input frequency range (bandwidth in L-band).

LO: 9.75 GHz **IN**: 950 – 1950 MHz **OUT**: 10.70 – 11.70 GHz

KEY FEATURES:

- Output flange: PBR120
- Output power (P1dB, min): 2 W
- Output frequency range: 10.70 – 11.70 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

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RX	10.95 – 11.7 GHz
TX	13.75 – 14.5 GHz
IF	950 – 1700 MHz
(Tx/Rx)	
	:
LO	Tx: 12.8 GHz Rx: 10.0 GHz
LO:	
@1 kHz	-93 dBc/Hz
@10 kHz	-104 dBc/Hz
@100 kHz	-107 dBc/Hz
@1 MHz	-121 dBc/Hz
	25 MHz
	< 0.5 ppm
	:

	≤ 3 dB
	> 60 dB
	< -50 dBc
	< -10 dB
VSWR (Rx/Tx)	Rx: ≤ 2.0 Tx: ≤ 1.8
(Rx/Tx)	Rx: ≥ 18 dB Tx: ≥ 18 dB
P1dB	2 W (33 dBm)
	0 66 dB ( )
(250 MHz RTBW)	< 5 dB
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	12 VDC
	20 W
	-40°C +60°C

(UMT LLC)

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