

DOWNCONVERTER 1+1



Downconverter with 1+1 redundancy is designed to convert signals from L-band to 70 MHz IF for further signal processing on this IF. It is used in satellite communication systems of L, S, C, X and Ku bands.

| Parameter name, units | Nominal value, tolerance |
|--|--------------------------|
| Input frequency range, MHz | from 950 to 2150 |
| Frequency tuning step, kHz | 1 |
| Frequency instability, ppm | 0.01 |
| The spectral density of phase noise power, dBc/Hz, when detuned from the carrier by: <div style="display: flex; justify-content: flex-end; align-items: center; gap: 20px;"> <div style="text-align: right;"> 100 Hz 1 kHz 10 kHz 100 kHz 1 MHz </div> <div style="text-align: left;"> -70 -90 -95 -95 -100 </div> </div> | |
| Channel bandwidth, MHz | 36 |
| The maximum allowable input signal level, dBm | - 20 |

| | |
|--|---|
| Output power level with 1dB compression (P1dB out) , dBm, not less than | 0 |
| The IMD3 value with two output signals of -13dBm , dBm, not more than | - 40 |
| Conversion gain , dB, not less than | 40 |
| Gain adjustment depth , dB, not less than | - 30 |
| Gain adjustment step , dB | 1.0 |
| Input impedance , Ohm | 50 |
| Input return losses , dB | - 18 |
| Control and monitoring mode | Local and remote |
| Remote mode interface | Ethernet 10/100 Base T |
| Impedance of radio frequency output , Ohm | 50 |
| VSWR radio frequency output | 1.8:1 |
| Spurious emissions in the working band , dB, not more than | - 60 |
| Reference oscillator frequency , MHz | 10 |
| Phase noise of the reference oscillator , dBc/Hz when detuned from the carrier by: | -125 10 Hz -140 100 Hz -150 1 kHz -155 10 kHz |
| AC power supply voltage from AC mains with frequency 50Hz , V | 100 – 262 |

| | |
|--|----------------|
| Power consumption in hot standby mode 1+1, W, not more than | 45 |
| Overall dimensions (without connectors), mm | 482 x 400 x 44 |
| Weight, kg, not more than | 7.0 |

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.*