

## MMDS DOWNCONVERTER MODEL DC02-201



- **256QAM Digital-Ready**
- **Integrated dipole**
- **Low phase noise**
- **High frequency stability**
- **Low power consumption**
- **UMTS rejection**

### PRODUCT APPLICATION:

The MMDS downconverter is designed for reception of digital MMDS signals in the standard DVB-C format. It is compatible with any CAS (Conditional Access System).

The MMDS downconverter consists of a state-of-the-art receiver integrated with a dipole designed to be placed at the focal point of standard wire mesh antennas.

This downconverter provides unequalled phase noise and noise figure performance. It includes integrated front-end filters to protect from interference from WLAN, GSM and 3G.

Other performance characteristics in addition to low phase noise include high linearity and low in-band ripple, which make it possible to use it for digital DVB-C modulation format of up to and including 256QAM.

The downconverter can be easily mounted directly on the grill antenna and is compatible with other types of antennas.

<b>MMDS Downconverter Model DC02-201</b>	
<b>Electrical Specifications</b>	
Input Frequency:	2500 ~ 2686 MHz
Output Frequency:	222 ~ 408 MHz
RF to IF Gain:	36 dB
Gain Stability:	±2dB
Gain Flatness:	±0.1dB @ 6MHz ±1.5dB @ 222~408 MHz
Local Oscillator Frequency:	2278 MHz
Local Oscillator Stability:	±25 KHz over temperature.
Local Oscillator Phase Noise:	-85 dBc/Hz @ 1KHz -92 dBc/Hz @ 10 KHz -99 dBc/Hz @ 100KHz
Local Oscillator LO Leakage:	-60 dBm max. @ Antenna port. -45 dBm @ IF port.
Noise Figure Room Temp:	2 dB typ.
Noise Figure Over Temp:	3 dB max.
Image Rejection :	70 dB min.
IF Rejection:	80 dB min.
PCS Rejection:	90 dB min.
WCS Rejection:	52 dB min.
Spurious in F Band :	-80 dBm max.
<b>Interface Specifications</b>	
Input Interface Impedance:	75 ohm
Input Interface Connector:	“F” Type Female
Antenna Interface	Dipole (focal length for 18 dBi and 21 dBi mesh antennas)
Power Supply Voltage:	+15 to +24 VDC
Power Supply Current :	150 mA max. (@ 15 VDC)
<b>Environmental Specifications</b>	
Temperature:	-30°C ~ +70°C
Humidity:	100% water proof
Lighting Protection:	Meet or exceeds IEEE specifications
Dimensions:	11.5”W x 2.16”H x 1.22”D (294 mm x 55 mm x 31 mm)

<sup>1</sup> Specifications subject to change without prior notice.