

# FCV 5G - FREQUENCY CONVERTER FROM 3GHz TO 4 GHz



The Frequency Converter FCV 5G is an external module that combined with a field strength meter, displays frequencies between 3000 MHz and 4000 MHz, included the frequency range of 5G signal from 3600 MHz to 3800 MHz.

The displays of converted carrier will be into IF SAT band ie in the range of frequencies between 1000 MHz and 2000 MHz.

If the field strength meter has the Max Hold function, you can see the random signals (not continuously present), otherwise they are impossible to measure for their inconstancy.

The size is small and weight is very low, the power supply is between 13 and 18 volts, it is applied directly to the RF output connector of the field strength meter.



## FCV 5G – TECHNICAL SPECIFICATIONS

Input frequency	3000 ÷ 4000 MHz with conversion of all range
Input impedance	50 Ohm (75 Ohm upon request)
Input dynamic	-80 dBm ÷ -10 dBm
Input connector	SMA female
Output frequency	1 ÷ 2 GHz
Output impedance	75 Ohm
Return loss	≥ 10 Db
Output power	+ 2 dBm (1 dB gain compression)
Output connector	F female
Type transfer	Conversion single SAT band (Down Converter)
Gain	0 dB ± 3 dB
Stability Gain	± 0.1 dB/°C (5 ÷ 40 °C)
Noise figure	≤ 15 dBm
Spurious rejection	< 20dBμV without input < -39 dB input with single carrier of -10dBm
Filter input rejection	45 dB a 3 GHz
Oscillator frequency	2 GHz
Oscillator frequency	± 1 MHz
In DC by RF connector	Remote feed (LNB) by RF output connector 13 ÷ 18 Volt / 0.2 A
Calibration temp.	Environmental temperature (23°C ± 5°C)
Operating temp.	from +5°C to + 40°C
Operating humidity	80% for temperature until 31°C ( linear reduction of 50% to 40°C)
Operating altitude max.	2000 m
Dimension	(H x L x P) 150 x 90 x 25 mm
Weight	0,25 kg with bag
Supplies	The device has nylon bag