MODEL MP6220

Overview

ADIVIC MP6220 GPS simulator is a cutting-edge design for the purpose of various GPS receiver testing. In multi-channels mode, users are able to scrutinize position fix sensitivity, signal tracking sensitivity, TTFF (time to first fix), position deviation, and position accuracy of GPS receiver. Single channel mode enables users to test sensitivity, S/N ratio(C/N0 value), and ATE test in laboratory and production line. Capitalizing on flexible usage, availability of switching between the single-channel and multi-channel modes provides users quick and effective testing to generate the best profit.

Features

- Almanac data upgradeable
- Built-in ultra high precise OCXO
- RF input range from -55 dBm to -160 dBm
- Control by RS232 interface
- Sensitivity testing

ADIVIC
RF Test & Measurement

9F., No. 88, Wenmao Rd., Guishan Dist., Taoyuan City 333001, Taiwan
TEL: 886-3-327-9968
Web: www.adivic.com

Chroma GROUP

Single & Multi-Channel GPS Simulator

MP6220 Specifications

Frequency Characteristics	
Frequency Range	1575.42 MHz
Warm-up time (typical)	30 minutes
Frequency Accuracy	±100 ppb maximum
Temperature stability	±100 ppb maximum
Aging (Per year)	±100ppb maximum
(Per day)	±1 ppb maximum
Channels	
Number	1 CH~ 8 CH
Navigation data	GPS C/A @ 1.023 MHz with 50 bps
Modulation	BPSK
Spectral purity	
Phase Noise @ 1 KHz offset	< -80 dBc/Hz
Harmonic	< -70 dBc
RF Output Characteristics	
High power normal output level	-55 dBm to -90 dBm
Low power normal output level	-90 dBm to -160 dBm
Channel Attenuation range	
(refer normal output level	-31.5 dB to 0 dB)
Power level ranged from	-55 dBm to -145 dBm in 1 dB step,
	-145 dBm to -160 dBm in 0.5 dB step.
Amplitude Resolution	1 dB step
Amplitude Accuracy	< ±1 dB
Output Impedance	50 Ω
Voltage Standing Wave Ratio	
1575.42 MHz	< 1.2
Overload protection on RF output	
Maximum reverse RF power	1 Watt maximum
Maximum DC input	±25 VDC
Calibration	
Calibration	1 year
Environmental	
Operating temperature	0 to 50 ℃
Relative Humidity	10% to 90%
Storage temperature	-20 to 70 ℃
Relative Humidity	5% to 95%

Single & Multi-Channel GPS Simulator GUI