Four-channels Low Jitter Clock Generator

MCG-200

- Multi-channels low jitter clock generation
- All channels in synchronization
- Independent frequency setting
- Built-in internal reference clock



Specifications

Category	Parameter	Specificfation			
		Min.	Typ.	Max.	Unit
Input Characteristics	External Clock Frequency	9.9	10.0	10.1	MHz
(External Clock is not required but customer can input own external frequency to synchronize the clck generator module)	External Clock Amplitude	200	450	1000	mVpp
	External Clock Duty Cycle		50		%
	External Clock Input Resistance (SE)		50		Ohm
Output Characteristics	Output Clock Frequency		10kHz ~ 1000MHz		
	Output Clock Amplitude	300	500		mVpp
	Output Coupling		AC Couplling, Single Ended		
	Output Clock Shape		Rectangular		
	Rise/Fall Time (20% to 80%)		100	150	ps
	Duty Cycle		50	55	%
	Clock Jitter (RMS)		100	500	fs
	Output Impedance		50		Ohm
Input/Output Ports	External Clock Synchronize Input Port		SMA x 1		
	Number of Clock Output Ports		SMA x 4		
	Trigger Output Port		SMA x 1		
	Interface (1)		MIL Connector , 14 Pins , 2.45mm (Power Purpose)		
			Micro USB x 1 (Power & Communication Purpose)		
	Power Supply (1)(2)		DC+5.0, 1A		
Physical	Dimension (W x H x D) (Exclude Protrusion)		75 x 15 x 75		mm
	Weight		100		g

Note: (1) The micro USB port can be used for ASCII remote control and also provides +5V power supply to the unit.

(2) Customer can choose to provide DC+5V power through MIL connector once all settings are done.

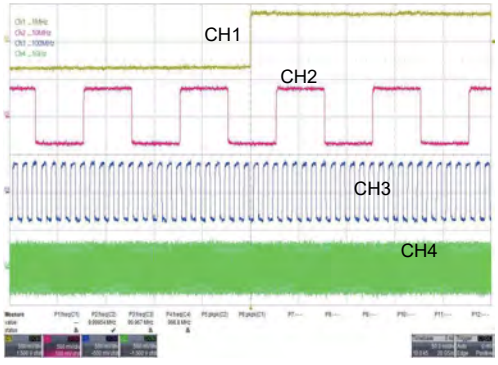


Fig.1: Clock output waveforms at CH1, CH2, CH3, CH4.

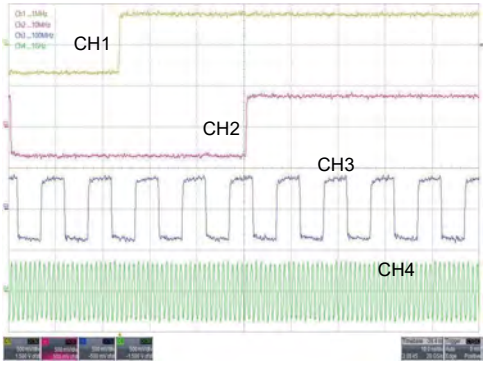


Fig.2: Clock output waveforms at CH1, CH2, CH3, CH4 at frequency settings.

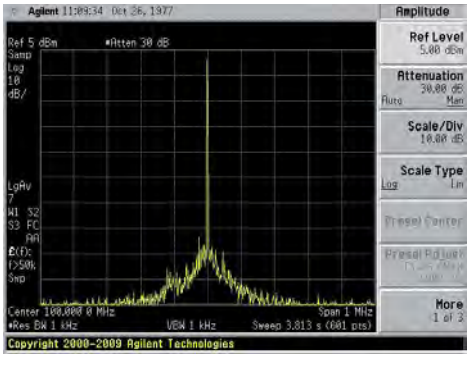


Fig.3: Clock Frequency Spectrum

Ordering Information