

Function Generator

8210 / 8205 / 8203 / 8202



Features

- 4-in-1 Sweep, Function & Pulse Generator and Frequency Counter
- Versatile waveforms for Sine, Square, Triangle, Ramp, Pulse, Sawtooth and TTL
- Frequency Out put - 8210 : 0.1 Hz to 10 MHz - 8205 : 0.05 Hz to 5 MHz - 8203 : 0.03 Hz to 3 MHz - 8202 : 0.02Hz to 2MHz
- Built in External Counter - 7digits Display measuring up to 100MHz(8210) - 6digits Display measuring up to 50MHz(8205, 8203, 8202)
- Internal and External linear Sweep control from 1:1 to 100:1 • Variable Symmetry for generating Sawtooth and Pulse waveforms
- TTL leveled Square waveform output • CMOS leveled Square waveform output(8205, 8203, 8202 Only)
- Variable DC Offset control • Variable Output level control with 20 dB Attenuator and Amplitude control

Technical Specifications

MODEL		8210	8205	8203 / 8202
Output Characteristics	Waveforms	Sine, Square, Triangle, Ramp, Pulse, Sawtooth, TTL/CMOS Leveled Square(COMS: 8203, 8202)		
	Frequency Range	0.1 Hz ~ 10 MHz in 7Range	0 05 Hz ~ 5 MHz in 7Range	0.03 Hz ~ 3 MHz in 7Range (8203) 0.02 Hz ~ 2 MHz in 7Range (8202)
	Frequency Accuracy	± 2% of full scale		
	Output Level	20 Vp-p in open circuit, 10 Vp-p into 50Ω Load		
	Output Impedance	50Ω ± 5 %		
	Attenuator	20 dB fixed and continuously variable		
Waveform Characteristics	DC Offset Control	More than ± 5V (into 50Ω)		
	Sine wave	Flatness : ± 0.3 dB to 10 MHz Distortion : Less than 1 % at 0.2 Hz to 100 kHz		
	Square wave	Rise and Fall Time : Less than 120 nSec		
	Triangle wave	Linearity : More than 99 % at 0.2 Hz to 100 kHz		
	TTL Output	Rise and Fall time : Less than 25nS Output Level : TTL Level (H ≥ 2.4 V, L ≤ 0.4 V)		
	CMOS Output (8203, 8202 only)	Rise and Fall time : Less than 160nS Output Level : 4V to 15V ± 1V, Variable		
	Symmetry Variation	1:1 to 10:1		
Sweep Function Characteristics	Mode	Linear		
	Width	Variable from 1:1 to 100:1		
	Rate	0.5Hz to 50Hz (20mS to 2S)		
	External VCF Input	Input Voltage : 0 to 10V, Input Impedance : Approx. 1kΩ		
Frequency Counter Characteristics	Display	7 digit Green LED		6 digit Green LED
	Frequency Range	0.2 Hz to 100 MHz		0.2 Hz to 50 MHz
	Accuracy	± Timebase Error ± 1 count		
	Low pass Filter	-3dB, 100kHz		
	Timebase	10 MHz X-TAL, 20PPM		
	Input Sensitivity	100 mVrms		
	Max. Input Voltage	250 Vp-p		
General	Power Requirement	AC 115 or 230 V ± 10%, 48 to 66 Hz		
	Operating Temperature	0 to 50 °C (Accuracy specified at 23 ± 5 °C)		
	Dimension	240 (W) x 270 (D) x 90 (H) mm		
	Weight	Approx. 3 kg	Approx. 2 kg	
	Standard Accessories	Power Cord, BNC Cable, Fuse, Instruction Manual		