

# FG-7002C, FG-7005C



**FG-7005C**

## FG-7005C FEATURES

- 0.05Hz - 5MHz Frequency output in 7 Range
- 4-in-1 Sweep, Function & Pulse Generator and Frequency Counter
- Versatile waveforms for Sine, Triangle, Ramp, Pulse sawtooth and DC output
- Built in 7 digits internal and external counter (Max. 100MHz)
- Low distortion for sine waveform less than 1% at 0.2Hz ~ 100KHz
- Variable symmetry for generating sawtooth and pulse waveforms
- TTL leveled square waveform output
- Variable DC offset control
- Variable output level control with 20dB attenuator and amplitude control



**FG-7002C**

## FG-7002C FEATURES

- 0.02Hz - 2MHz Frequency output in 7 Range
- 4-in-1 Sweep, Function & Pulse Generator and Frequency Counter
- Versatile waveforms for Sine, Triangle, Ramp, Pulse sawtooth and DC output
- Built in 6 digits internal and external counter (Max. 50MHz)
- Low distortion for sine waveform less than 1% at 0.2Hz ~ 100KHz
- Variable symmetry for generating sawtooth and pulse waveforms
- TTL and CMOS leveled square waveform output
- Variable DC offset control
- Variable output level control with 20dB attenuator and amplitude control

# Specifications

Model		FG-7002C	FG-7005C
Output Characteristics	Waveforms	Sine, Square, Triangle, Ramp, Pulse, Sawtooth, TTL Levelled Square(CMOS: 7002C only)	
	Frequency Range	0.02Hz to 2MHz in 7 ranges	0.05 Hz to 5 MHz in 7 Range
	Frequency Accuracy	2% of full scale	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	
	DC Offset Control	More than +/- 5V (into 50 ohm)	
Waveform Characteristics	Sine wave	Flatness: +/- 3 dB to 2MHz(7002C,8202), 5MHz(7005C,8205) Distortion : Less than 1 % at 10 Hz to 100 kHz	
	Square wave	Rise and Fall Time : Less than 120nS(7002C), Less than 25nS(7005C) at 1 MHz	
	Triangle wave	Linearity : More than 99 % at 0.2 Hz to 100 kHz	
	TTL Output	Rise and Fall time : Less than 25 nS at 1 MHz Output Level : TTL Level (H ≥ 2.4 V, L ≤ 0.4 V)	
	CMOS Output (7002C only)	Rise and Fall time(1MHz)	
		Less than 160 nS	Less than 160 nS
	Symmetry Variation	4V to 15V +/- 1V, Variable 1:1 to 10:1	
Sweep Function Characteristics	Mode	Linear	
	Width	Variable from 1:1 to 100:1	
	Rate	0.5 Hz to 50 Hz (20 mS to 2 S)	
	External VCF Input	Input Voltage : 0 to 10 V, Input Impedance : Approx. 10 kohm	
Frequency Counter Characteristics	Display	FG-7002C: 6 digits Green LED, Gate time, MHz, KHz, Hz, mHz FG-7005C: 7 digits Green LED, Gate time, MHz, KHz, Hz, mHz	
	Frequency Range	0.2 Hz to 50 MHz	0.2 Hz to 100 MHz
	Accuracy	+/- Timebase Error +/- 1 count	
	Low pass Filter	Approx. -3 dB, 100kHz	Approx. -3 dB, 100kHz
	Timebase	10 MHz X-TAL, +/- 20PPM	
	Input Sensitivity	100 mVrms	
	Max. Input Voltage	250 Vp-p	
General	Power Requirement	115 or 230 VAC +/- 10%, 48 to 66 Hz	
	Operating Temperature	0 to 40 °C (Accuracy specified at 25 +/- 5 °C )	
	Dimension	240 (W) x 270 (D) x 90 (H) mm	240 (W) x 270 (D) x 90 (H) mm
	Weight	Approx. 2.0 kg	Approx. 3.0 kg
	Standard Accessories	Power Cord, BNC to Clip Cable, Fuse, Instruction Manual	