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FUNCTION GENERATOR

LFG-1310



A full compliment of versatile functions and the ability to combine outputs makes the LFG-1310 extremely useful in a wide range of applications.

General-Purpose, Wideband (10MHz) Function Generator with a Full Compliment of Functions

The LFG-1310 Function Generator produces a variety of waveforms, including sine, square, triangular, ramp, and pulse signals covering a frequency range of 0.001Hz to 10MHz. Because it provides such different operation modes as continuous wave, gate, trigger, burst, and sweep generation, the LFG-1310 can be used for diverse applications—for example, for frequency characteristic measurement of audio/video equipment and in the testing of automatic control systems.

FEATURES

- Wide frequency range of 0.001Hz to 10MHz.
- Gate and trigger generations are possible. The LFG-1310 provides gate generation to supply signals for a fixed period of time, and trigger generation to supply signals for one cycle. The trigger points can be arbitrarily set.
- Burst waves can be generated by the built-in oscillator.
- Built-in linear/logarithmic sweep functions.
- VCG function for external control of output frequency.
- GCV function to generate a voltage in proportion to the frequency.
- Built-in amplitude modulation circuit with the suppressed-carrier mode.
- Variable waveform symmetry.
- DC offset function to superimpose DC voltage on output waveforms. In addition, DC voltage only can be obtained.

SPECIFICATIONS

| | |
|---|--|
| Frequency Range | 0.001Hz to 10MHz, 9 decade ranges |
| Dial Accuracy | × 0.01 to × 100k ranges, ± 5% of full scale × 1M range, ± 10% of full scale |
| Output Signal | Sine wave, Triangular wave, Square wave, Ramp wave, Pulse wave |
| Sine Wave | Output Flatness: 0.01Hz to 100kHz, ± 0.3dB 100kHz to 10MHz, ± 1dB Distortion: 10Hz to 50kHz less than 0.5% Linearity Error: 1% at 100Hz Rise/Fall Time: 25ns or less at max. output |
| Triangular Wave Square Wave | |
| Symmetry Variable | 20:80 to 80:20 (0.01Hz to 1MHz) |
| Operation Mode | Continuous generation |
| CW TRIG, GATE | TRIG: one cycle oscillation triggered by input signal GATE: oscillation only when input is HI Frequency Range: 0.01Hz to 1MHz Input Voltage: TTL Input Frequency: DC to 100kHz Start/Stop Phase: variable |
| BURST | Burst wave oscillation for gate time of 1ms to 10s by built-in oscillator ON/OFF time is symmetrical and variable |
| SWEEP | LOG or LINEAR is selectable. |
| Sweep Mode Sweep Rate | 1ms to 10s, 2 ranges, continuously variable Fly-back interval is variable |
| Sweep Width | Max. 1:100, continuously variable (sweep start frequency can be specified.) |
| Output Characteristics | |
| Output Level | 20Vp-p at open circuit |
| Attenuators | 0dB, 20dB, 40dB, 60dB continuously variable |
| Output Impedance | 50Ω ± 10% |
| DC Offset | Maximum ± 10V at open circuit |
| SYNC Output | TTL level (duty cycle is variable.) |
| GCV Output | Voltage output in proportion to frequency 0 to +5V (maximum frequency in each range) |
| Sweep Output | Sweep output in sweep mode 0 to -5V |
| Amplitude Modulation (AM) | Modulation factor: 0 to 100% continuously variable Input Signal Level: Max. 5Vp-p Suppressed-carrier mode |
| External Frequency Control (VCG) | Freq. Range: Max. 1000: 1, with dial set to "10" Input Level: 0 to -5V (± 20%) (frequency is decreased by negative voltage) |
| Power Supply | 100, 120, 200, 220, 240VAC, 50/60Hz, 30VA |
| Size and Weight | 300(W) × 99(H) × 300(D)mm, 3.5kg |
| Accessory | BNC clip cable (50Ω) 1 |

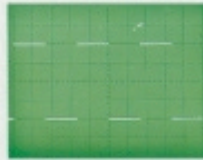
Generation of Five Types of Waveform



Sine wave



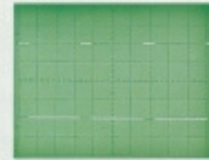
Triangular wave



Square wave



Ramp wave



Pulse wave

Symmetry Function

The symmetry can be adjusted in a range from 20:80 to 80:20.



20:80

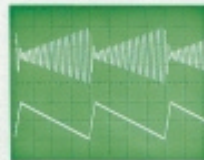


50:50



80:20

Output Voltage Sweep



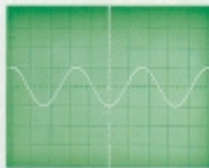
Output Voltage sweep wave

SWEEP OUT wave

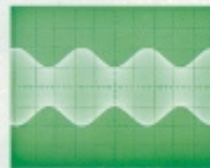
Haversine wave



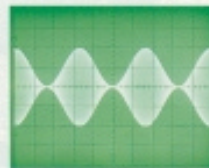
AM modulation and DSB function



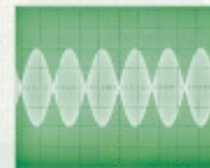
Modulation wave



50% modulation wave

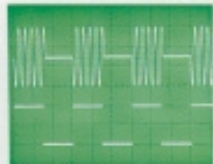


100% modulation wave



DSB wave

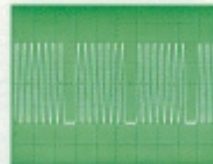
BURST MODE



Oscillation time and resting time set are the same.

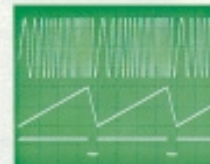


Oscillation time set is longer than the resting time.



TRIG LEVEL is used to vary the oscillation starting level of the burst waveform.

Gated Sweep Wave



Gated SWEEP wave

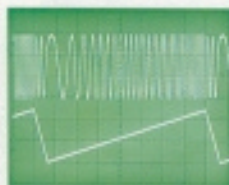
SWEEP OUT wave

GATE OUT wave

Sweep Function (LOG/LINEAR)

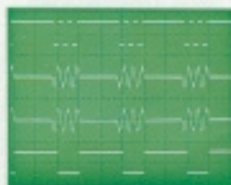


LOG sweep



LINEAR sweep

GATE, TRIG MODE



Gate wave

Gated triangular wave

Gated sine wave

Gated square wave

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