



RSR 3MHz Sweep Function Generator

Part No. 01FG30

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1. GENERAL SPECIFICATIONS:

Frequency: 0.5Hz ~ 3MHz in 6 steps, controlled by rotary switch.

Output Waveform: Sine, Square, Triangle, Ramp, Positive Pulse and Negative Pulse; 6 waveforms total.

Stability: 0.1 % - 15 minutes after power-on.
0.2% - 24 hrs after power-on.

DC Offset: Continuous Adjustment, 10V at no-load or 5V at 50 load.

Limits of Operation: 0 °C ~ 40 °C, 10~80% R.H.

Storage Environment: -20°C ~ 70°C, 0~90% R.H.

Power source: AC 115V (±10%) 50/60HZ, FUSE: 600mA
AC 230V (±10%) 50/60HZ, FUSE: 300mA

Power Consumption: 25W

Dimensions: 27.5 x 9.0 x 30.0 cm

Weight: 2.5Kg Net.

Accessory: Power cord, manual.

2. RAMPWAVE:

Frequency: 0.5Hz - 2.5MHz

Symmetry: 80% (rise wave) to 20% (fall wave),
< 5%, 1Hz ~ 100KHz.

Rise Wave Linearity: < 2%, 1Hz - 100KHz.

3. TRIANGLE WAVE:

Frequency: 0.5Hz - 3MHz.

Symmetry: 50% (rise wave) to 50% (fall wave),
< 2%, 1Hz ~ 100KHz.

Linearity: < 1%, 1Hz ~ 100KHz.

4. SINE WAVE:

Frequency: 0.5Hz ~ 3MHz.

Distortion: < 2%, 1Hz ~ 100KHz.

Hannonic Ratio: < 30dB, 1 OOKHz ~ 3MHz.

Frequency Response: < 0.1dB up to 100KHz.
< 1dB 100KHz to 3MHz.

5. SQUARE WAVE:

Frequency: 0.5Hz ~ 3MHz.

Symmetry: 50% (positive half) to 50% (negative half),
< 2%, 1Hz ~ 100KHz.

Rise Time: < 60ns.

6. POSITIVE PULSE:

Frequency: 0.5Hz ~ 2.5MHz.

Width: 0.4sec ~ 100ns continuous adjustment.

Symmetry: 20% to 80%, < 5%, 1Hz ~ 100KHz.

Rise Time: < 60ns.

7. NEGATIVE PULSE:

Frequency: 0.5Hz ~ 2.5MHz.

Width: 0.4sec ~ 100ns.

Symmetry: 80% to 20%, < 5%, 1Hz ~ 100KHz.

Fall Time: < 60ns.

8. MAIN OUTPUT:

Output Impedance: 500, < 2% Accuracy.

Max. output: 20 Vp-p (No load), ±1V
10 Vp-p (50Ω load), ±0.5V

Min. output: 0.1 Vp-p (No load) and 0.05V (50Ω load)

Attenuator: one -20dB switch, < 2% Accuracy.

9. SYNCHRONOUS OUTPUT:

Output Impedance: 50Ω, < 2% Accuracy.

Output Level: TTL level, > 3Vp-p fixed amplitude.

Fanout: > 20.

Rise Time: < 30ns.

10. SWEEP SYNCHRONOUS OUTPUT:

Output Impedance: 1KHz, < 20%.

Output Waveform: Linear or Log Sweep Ramp Wave.

Output Amplitude: 10Vp-p (No load) or 5Vp-p (1KΩ load)

Output Frequency: Continuous adjustment, 0.2Hz ~ 100Hz.

11. SWEEP GENERATOR:

Sweep Form: Linear or Log switchable.

Sweep Speed: 5sec ~ 10ms, continuous adjustment.

Sweep Width: 1:1 ~ 1:100