DIGITAL FUNCTION GENERATOR

DIGITAL SIGNAL GENERATOR (0.2Hz ~ 2MHz) Model - KM 2001



✳ **Display :** Digital display about frequency & operate conveniently.

✳ **FUNCTIONS :**

- **Frequency Range :**

  X1 shift : 0.2Hz ~ 20Hz
  X10 shift : 2Hz ~ 200Hz
  X100 shift : 20Hz~ 2KHz
  X1K shift : 200Hz ~ 20KHz
  X10K shift : 2KHz ~ 200KHz
  X100K shift : 20KHz ~ 2MHz

- **Square wave nature :**

  Output Voltage : >10V (highest point)
  Rising time : < 0.25 microseconds (within 200KHz)
  Empty occupied ratio : 50% ±5% (from 1KHz to 200KHz)

- **The Nature of Output Pole :**

  Output impedance : 600Ω ± 10%
  Attenuator : -20dB, -40dB & in 60dB series.

- **Power Consumption :**

  Input Voltage : Alternating current 110V or 220V for choice
  Power Consumption : about 10 watts

- **Sine Wave Nature :**

  Output Voltage : 5V
  Distortion ratio : <0.1% 400Hz ~ 200KHz
  < 0.5% 50Hz ~ 500KHz
  Evenness output : ± 1.5 decibels (about equal to 1KHz)

✳ **ADDITIONAL FUNCTIONS :**

- Strongly steady electro-circuit.
- Frequency Range : 6-phases from 0.2Hz ~ 2MHz.
- Output Impedance: 600Ω ±10%
- Output Voltage balance may be adjusted by 2 groups of attenuator every 20dB & f 40dB, total 60dB or potentiometer in continuity.
- Sine wave of square wave may be chosen to output.

✳ **Power supply :** 220V/110V±10% 50Hz/60Hz
✳ **Dimension :** Approx. 270 x 225 x 90mm
✳ **Weight :** Approx. 1.5kg.
✳ **Accessories :** User Manual, Power cord, Testing Nip & Carrying case.

DIGITAL FUNCTION GENERATOR Model - KM 2002



✳ **Display :** 5 digit LED display, 3 Digit LED amplitude display synchronously.
✳ **Frequency Range :** 0.1 -2MHz
✳ **Attenuation :** 20db / 40db.

✳ **FUNCTIONS :**

- **Frequency Range : (Seven Ranges)**

  0.2Hz / 2Hz / 20Hz / 200Hz / 2kHz / 20kHz / 200kHz / 2MHz.

- **Duty Cycle :** 20% ~ 80% (±10%)
- **Output Signal Impedance :** 50 Ω.
- **Output Signal Wave-form :** Sine wave, square wave, rectangle wave, sawtooth wave & triangle wave, pulse
- Sine Wave **:** Distortion < 2%
- Triangle Wave **:** Linear > 99%
- Square Wave **:** Rise edge times / Fall edge times < 100 nS
- Measurement error **:** ≤ 0.5%
- Time **Base :** Frequency : 12 MHz,

  Frequency Stability : ± 5 x 10^{-5}

- Duty Cycle **:** Adjust range is 20 % ~ 80%

✳ **ADDITIONAL FUNCTIONS :**

- KM 2002 is an accurate testing Function Generator
- It can output the following function wave: sine wave, square wave, rectangle wave, sawtooth wave and triangle wave.
- The frequency, amplitude and duty cycle can be adjusted as required.
- Large scale single integrated accuracy function generator leads to super performance.
- Designed using large scale integrated circuit to insure the high reliability and high stability.

✳ **Power supply :** AC 220V / 110V ± 10% max.
✳ **Dimension :** Approx. 270(W) x 215(L) x 100(H)mm
✳ **Weight :** Approx. 1.6kg.
✳ **Accessories :** User Manual, Power cord & Carrying case.

DIGITAL FUNCTION GENERATOR Model - KM 2005 - 5MHz / KM 2010 - 10MHz



✳ **Display :** Digital display about frequency
✳ **Output waveforms :** Sine, Triangle, Square, ±Pulse, Positive & Negative swatooth.
✳ 1Hz-- 20MHz frequency counter.
✳ Square wave front : <50ns (KM 2005); <35ns (KM 2010)

✳ **FUNCTIONS :**

- **Frequency Range :** 0.1Hz ~ 5MHz **(KM 2005)**
  0.1Hz ~ 10MHz **(KM 2010)**
- **SINE WAVE :**

  Distortion : Less than 1% at 10Hz - 100KHz
  Frequency response : 0.1 Hz~100 kHz : ≤ ± 0.5dB
  100 KHz ~ 5 MHz ≤ ±1dB **(KM 2005)**

- **TTL/CMOS OUTPUT :**

  Level : Level: TTL low level less than 0.4V in pulse wave, high level greater than 3.5V.
  Rising time : Less than 100ns

- **Output Impedance :** 50Ω ± 10%

  Amplitude : no less than 20vp-p (empty load)
  Attenuation : 20dB 40dB
  DC bias 0 ~ ±10V (continuously adjustable)

- **Adjustable range of symmetry :** 90:10-10:90
- **VCF INPUT :**

  Input voltage : -5V ~ 0V ±10%
  Max. voltage ratio : 1000:1
  Input signal : DC - 1KHz

- **FREQUENCY COUNTER :**

  Measuring range : 1Hz ~ 20MHz
  Input impedance : Not less than 1MΩ / 20pF
  Sensitivity : 100mV rms
  Max. Input : 150V (AC+DC) with attenuator
  Input attenuation : 20dB
  Measurement error : Less than 0. 003% ±1digit

✳ **Power supply :** 220V/110V±10% 50Hz/60Hz
✳ **Dimension :** Approx. 310(L) x 230(W) x 90(H)mm
✳ **Weight :** Approx. 2.5kg.
✳ **Accessories :** User Manual, Power cord & Carrying case.