

3 MHz FUNCTION GENERATOR



Products

Low cost

Feature:

Frequency Range: 0.3Hz~3MHz

Waveforms: Sine, Triangle, Square, Ramp, TTL and COMS output

External voltage controlled frequency (VCF) function

Duty cycle control with signal inversion capability

Variable DC offset control

Two-step (-20db X 2) and variable attenuator

Specifications:

MFG-8215A

1.Main :

Frequency Range 0.3HZ~3MHZ (7 Range)

Amplitude $\geq 10V_{pp}$ (into 50 Ω load)

Impedance 50 $\Omega \pm 10\%$

Attenuator -20dB $\pm 1dB \times 2$

DC Offset <-5V~>5V (into 50 Ω load)

Duty Control 80%:20%:80% to 1MHz Continued variable

Range Accuracy $\pm 5\% + 1HZ$ (at 3.0 position)

2.Sine Wave

Distortion $\leq 1\%$, 0.3HZ~200kHz

THD $\leq 35dB$ below fundamental in all range (Specification applied from MAX. to 1/10 level).

Flatness <0.3dB, 0.3Hz~300kHz

<0.5dB, 300kHz~3MHz

3.Triangle Wave

Linear $\geq 98\%$, 0.3Hz~100kHz

$\geq 95\%$, 100kHz~3MHz

4.Square Wave

Symmetry $\pm 2\%$, 0.3Hz~100kHz

Rise or Fall Time $\leq 100\text{ns}$ at maximum output (into 50 Ω load)

5.COMS Output

Level 4Vpp $\pm 1\text{Vpp}$ ~14.5Vpp

$\pm 0.5\text{Vpp}$ adjustable

Rise or Fall Time $\leq 120\text{ns}$

6.TTL Output

Level $\geq 3\text{Vpp}$

Fan Out 20 TTL load

Rise or Fall Time $\leq 25\text{ns}$

7.VCF

Input Voltage 0V~10V $\pm 1\text{V}$ (100:1)

Input Impedance 10K $\Omega \pm 10\%$

8.General

Power Source AC115V/230V $\pm 15\%$, 50/60Hz

Operation

Environment Indoor use, altitude up to 2000m.

Ambient Temperature 0 $^{\circ}\text{C}$ ~40 $^{\circ}\text{C}$.

Relative Humidity 80%(Maximum).

Installation category II;

Pollution Degree 2 .

Storage temperature & Humidity -10 $^{\circ}\text{C}$ ~70 $^{\circ}\text{C}$,

70%(Maximum).

Accessories Power code $\times 1$

Testing code $\times 1$

Instruction manual $\times 1$

Dimension 251(W) \times 91(H) \times 291(D) mm

Weight Approx. 2.0kgs-MFG-8215A