

Function Generator

MFG-8215A/8216A/8250A MFG-8215B/8216B/8250B (With Power Output)

MODEL	Max.frequency	Frequency Display	Power Output
MFG-8215A	3MHz	NO	NO
MFG-8216A	3MHz	YES	NO
MFG-8250A	5MHz	YES	NO
MFG-8215B	3MHz	NO	YES
MFG-8216B	3MHz	YES	YES
MFG-8250B	5MHz	YES	YES



Feature:

- Frequency Range: 0.3Hz~3MHz/0.5Hz~5MHz
- Waveforms: Sine, Triangle, Square, Ramp, TTL and CMOS Output
- External Voltage Controlled Frequency (VCF) Function
- Duty Cycle Control with Signal Inversion Capability
- Model B has Power output 4W<100KHz
- Variable DC offset Control
- Two-Step(-20dB×2) and Variable attenuator
- Built-in 6 Digit Counter with INT/EXT Function up to 100MHz/high resolution

Specification

<p>Main</p> <p>Frequency Range: 0.3Hz~3MHz/0.5Hz~5MHz (7 rangES)</p> <p>Amplitude: $\geq 20V_{pp}$</p> <p>Impedance: $50\Omega \pm 10\%$</p> <p>Attenuator: $-20dB \pm 1dB \times 2$</p> <p>DC Offset: $< -5V \sim 5V$ (into 50Ω load)</p> <p>Duty Control: 80%:20%:80% to 1MHz Continuously variable</p> <p>Display: 6digits LED display (MFG-8215A & MFG-8215B have no display)</p> <p>Sine Wave</p> <p>Distortion: $\leq 1\%$, 0.3Hz~200KHz THD $\leq 35dB$ / 0.5Hz~100KHz THD $\leq 30dB$</p> <p>Flatness: $< 0.3dB$, 0.3Hz~300KHz; $< 0.5dB$, 300KHz~3MHz $< 0.3dB$, $< 500KHz$; $\leq 1dB$, $< 5MHz$</p> <p>Triangle Wave</p> <p>Linearity: $\geq 98\%$, 0.3Hz~100KHz/0.5Hz~100KHz; $\geq 5\%$, 100KHz~3MHz/100KHz~5MHz</p> <p>Square Wave</p> <p>Symmetry: $\pm 2\%$, 0.3Hz~100KHz/1Hz~100KHz</p> <p>Rise or Fall Time: $\leq 80nS$ at maximum output (into 50Ω load)</p> <p>CMOS Output</p> <p>Level: $4V_{pp} \pm 1V_{pp} \sim 14.5V_{pp} \pm 0.5V_{pp}$ adjustable</p> <p>Rise or Fall Time: $\leq 120nS$</p> <p>TTL Output</p> <p>Level: $\geq 3V_{pp}$</p> <p>Load capacity: 20TTL load</p> <p>Rise / Fall Time: $\leq 25nS$</p>	<p>VCF</p> <p>Input Voltage: $0V \sim 10V \pm 1V(100:1)$</p> <p>Input Impedance: $10K\Omega \pm 10\%$</p> <p>Frequency Counter</p> <p>(MFG-8215A & MFG-8215B have no frequency counter)</p> <p>Int./Ext: Switch selector</p> <p>Range: 0.3Hz~3MHz/0.5Hz~5MHz (5Hz~100MHz EXT)</p> <p>Accuracy: Time base accuracy ± 1count</p> <p>Time base: $\pm 20ppm(23^\circ C \pm 5^\circ C)$ after 30minutes warm up</p> <p>Resolution: 10nHz for 1Hz, and 0.1Hz for 100MHz</p> <p>Input Impedance: $1M\Omega / 150pF$</p> <p>Sensitivity: $\leq 100mV_{rms}$ (5Hz~100MHz)</p> <p>General</p> <p>Power Source: AC115V/230V $\pm 10\%$, 50/60Hz</p> <p>Operation Environment: Indoor use, altitude up to 2000m, Ambient Temperature $0^\circ C \sim 40^\circ C$, Relative Humidity 80%(Maximum), Installation category II, Pollution Degree 2.</p> <p>Storage temperature & Humidity: $-10^\circ C \sim 70^\circ C, 70\%$ (Maximum)</p> <p>Accessories: Power code $\times 1$ pcs</p> <p>Testing code $\times 1$ pcs</p> <p>Instruction manual $\times 1$ pcs</p> <p>Dimension: 251 (W) \times 91(H) \times 291(D)mm</p> <p>Weight: 2.1kgs for MFG-8215A, MFG-8215B, MFG-8216A, MFG-8216B 2.3kgs for MFG-8250B, MFG-8250A</p>
---	---