



GLOBAL SPECIALTIES

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PW2105 - 5 MHz Function Generator

Specifications

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Frequency Characteristics

Waveforms Sine Square Triangle, $\pm$ Pulse $\pm$ Ramp

Range 0.1Hz to 5MHz in 8 ranges

Resolution 4 digits

Frequency stability 0.1%

Tuning Range - Coarse 10:1, Fine $\pm 5\%$ of Coarse Setting

Variable Duty Cycle 15:85:15 Continuously Variable.

Operating Modes - Normal, Sweep, VCG

Output Characteristics

Impedance 50 ohm $\pm 10\%$

Level 20v p-p Open Circuit, 10v p-p into 50 ohm

Amplitude; variable 20dB range typical

DC Offset Preset ± 0.1 v Variable ± 10 v open circuit, ± 5 v into 50 ohms

Auto + negative peak of waveform 0v ± 0.1 v

Auto - positive peak of waveform 0v ± 0.1 v

SINE WAVE

Distortion 1% typical at 1kHz

Flatness $\pm 5\%$.45dB

SQUARE WAVE

Symmetry 0.1Hz to 100kHz $< 2\%$

Rise Time 20ns

TRIANGLE WAVE

Linearity $> 98\%$ to 100kHz

TTL Output

Level 0.8v 2.4v

Rise Time < 20 nS

Duty Cycle 50% typ.

CMOS Output

Level 0-4v to 0-14v Continuously variable

Rise Time < 120 ns

Operation unspecified at frequencies > 2 MHz

VCG (Voltage Controlled Generator Input)

Input Voltage 0-10v ± 1 v, 0-10v causes a 100:1 frequency change

Impedance 10k $\pm 5\%$

Sweep Operation

Mode Linear or Log

Width 100:1 continuously variable

Rate 20ms to 30s continuously variable

Sweep output 0-2v

Start/stop frequencies adjustable

Frequency Counter

Accuracy $\pm 10\text{ppm} \pm 1$ count at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Display 4 digit LED.

External Input

Frequency range 5Hz to 40 MHz,
Resolution 0.1Hz, 1Hz, 10Hz 100Hz 1kHz, automatically switched
depending on input frequency
Sensitivity $< 25\text{mV rms}$
Impedance 1M ohm/ 100pF

Square Wave divide by 10 or 100

Auxiliary square wave outputs at 1/10th and
1/100th of the main frequency. -TTL levels

Power Source

110/230v ac 50/60Hz

Communication Port

RS-232

Part Number

105-2105

[2MHz](#) • [5MHz](#) • [10MHz](#) • [20MHz](#)

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