

- Sweep Function Generator and Frequency Counter
- Sine, Square, Triangle, Ramp, Pulse, Skewed Sine and TTL Square Waveforms
- 0.2Hz to 20MHz Frequency Output (Sine wave)
- Built-in 8 digit 3.0GHz Frequency Counter
- Internal and External linear Sweep control
- Variable Symmetry for generating Sawtooth (Ramp), Skewed Sine and Pulse Waveforms
- Variable DC Offset control
- Variable Output level control and 20 dB attenuator



B821

■ SPECIFICATIONS

[B821]

Output Characteristics

Frequency Range:

Sine wave: 0.2 Hz to 20 MHz

Square & Triangle wave: 0.2 Hz to 10 MHz

Range selection in 8 ranges (1,10,100,1k,10k,100k,1M,10M)

Output Level:

20 ±1 Vp-p in open circuit

10 ±0.5 Vp-p into 50W Load

Waveforms:

Sine, Square, Triangle, Ramp, Pulse, Sawtooth, TTL Leveled Square

Attenuator: 20dB fixed and continuously variable (20dB)

Impedance: 50W ±0.5%

Frequency Accuracy: ±5% of full scale

Waveform Characteristics

Sine Wave:

Flatness: ±3dB to 20 MHz

Distortion: Less than 1.5 % at 0.2 Hz to 100 kHz

Duty error: Less than 10% in 50:50

Square Wave:

Rise and Fall Time: < 25 nS @ 10MHz

Triangle Wave: Linearity: More than 99 % at 0.2 Hz to 100 kHz

TTL Output:

Rise and Fall Time: < 25 nSec at 10MHz

TTL Level: H >= 2.4V, L <= 0.4V

Symmetry Variation:

Sine & Square: 80:20 to 20:80 at 0.2Hz to 2MHz

Triangle: 80:20 to 20:80 at 0.2Hz to 1MHzPulse

Sweep Function Characteristics

Mode: Linear

Width: Variable from 1:1 to 10:1

Rate: 0.5 Hz to 50 Hz (20mS to 2S)

External VCF Input:

Input Voltage: 0 to 10 V

Input Impedance: Approx. 10KΩ

Frequency Counter Characteristics

Display: 8 digits Green LED, Overflow, Gate time,

MHz, kHz, Hz

Frequency Range:

Input A: 0.1 Hz to 100 MHz

Input C: 80MHz to 3.0 GHz

Accuracy: ±Timebase Error ±1 count

Low pass Filter: -3 dB, 100kHz

Timebase: 10 MHz TCO, 1 ppm

Input Sensitivity:

Input A: 30mVrms(0.1Hz to 80MHz), 70mVrms(80 to 100MHz)

Input C: 20mVrms(80MHz to 2.0GHz), 70mVrms(2.0GHz to

3.0GHz with RG58 cable), 40mVrms(2.0GHz to 3.0GHz with RG400 cable)

Max. Input Voltage:

Input A: 35 Vp-p

Input C: 3Vrms

General Specifications

Power Requirements: 115 or 230 VAC ±10%, 48 to 66 Hz

Operating Temperature: 0 to 40°C (Accuracy specified at 23 ±5°C)

Size: 3.5" H x 9.5" W x 11.0" D

Weight: 6.6 lbs

Supplied Accessories: Manual, Line cord, BNC cable