## **Sweep Function Generators** 0.2MHz to 20MHz

- 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**

#### [B821]

#### **Output Characteristics**

Frequency Range

Sine wave: 0.2Hz to 20MHz

Square & Triangle wave: 0.2Hz to 10MHz

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 50 $\Omega$  Load

Waveforms

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

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

Impedance: 50Ω ±0.5% Frequency Accuracy: ±5% of full scale

**Waveform Characteristics** 

Sine Wave:

Flatness: ±3dB to 20MHz

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

Duty error: Less than 10% in 50:50

Square Wave:

Rise and Fall Time: < 25ns at 10MHz

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

TTL Output:

Rise and Fall Time: < 25ns at 10MHz TTL Level:  $H \ge 2.4V$ ,  $L \le 0.4V$ 

**Symmetry Variation:** 

Sine & Square; 80:20 to 20:80 at 0.2Hz to 2MHz Triangle; 80:20 to 20:80 at 0.2Hz to 1MHz

#### **Sweep Function Characteristics**

Mode: Linear

Width: Variable from 1:1 to 10:1

Rate: 0.5Hz to 50Hz (20ms to 2s) **External VCF Input:** 

Input Voltage: 0 to 10V

Input Impedance: Approx.  $10K\Omega$ 

### Frequency Counter Characteristics

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

MHz, KHz, Hz

Frequency Range

Input A: 0.1Hz to 100MHz

Input C: 80MHz to 3.0GHz

Accuracy: ±Timebase Error ±1 count

Low pass Filter: -3 dB, 100KHz Timebase: 10MHz TCO, 1 ppm

Input Sensitivity:

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

Input A (70mVrms): 80MHz to 100MHz

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

Input C (70mVrms): 2.0GHz to 3.0GHz with RG58 cable

Input C (40mVrms): 2.0GHz to 3.0GHz with RG400 cable

Max. Input Voltage:

Input A: 35Vp-p

Input C: 3Vrms

## SPECIFICATIONS

#### **General Specifications**

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

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

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