

- 10Hz to 1GHz measurement range
- Frequency, Period and Totalize and Self Check modes
- 8 digit LED display
- X1 and X10 Input Attenuator
- 10 PPM temperature stability (oven controlled)
- Low power consumption and light weight
- 25mV sensitivity



B818

SPECIFICATIONS

Frequency Measurement

Channel A Input

Frequency Range: 10Hz to 10MHz Direct
10MHz to 100MHz Prescaled

Resolution: Direct: 1Hz, 10Hz, 100Hz (range dependent)

Prescaled: 10Hz, 100Hz, 1000Hz (range dependent)

Gate Time: 0.01s, 0.1s, 1s switch selectable

Accuracy: ± 1 count \pm (timebase error) X frequency

Coupling: AC

Channel B Input

Frequency Range: 100MHz to 1GHz

Resolution: 100Hz, 1kHz, 10kHz, range dependent

Gate Time: 0.027s, 0.27s, 2.7s in 3 decade switch settings

Accuracy: ± 1 count \pm (timebase error) X frequency

Coupling: AC

Period Measurement

Channel A Input

Range: 100ms to 4 μ s

Period Multiplier: X1 to X100 in 3 decade switch settings

Resolution: 1ns, 10ns, 100ns range dependent

Accuracy: ± 1 count \pm (timebase error) X Period

Totalized Measurement

Channel A Input

Frequency Range: 10Hz to 10MHz

Count Capacity: 0 to 99,999,999

Resolution: ± 1 input count

Input Characteristics

Channel A

Sensitivity:

10MHz Range: 25mV RMS (10Hz to 8MHz) 50mV RMS (8MHz to 10MHz)

100MHz Range: 25mV RMS (10MHz to 80MHz) 50mV RMS (80MHz to 100MHz)

Attenuation: X1 or X10

Input Impedance: 1M Ω (C = < 35pF)

Max. Voltage: 250V DC and AC RMS

Channel B

Sensitivity: 20mV RMS

Impedance: 50 Ω

Max. Input Voltage: 3V DC or AC RMS

Timebase

Frequency: 10MHz & 3.90625MHz (Temperature controlled oven)

Stability:

Short Term: $\pm 3 \times 10^{-9}$ for 1 Sec

Long Term: $\pm 2 \times 10^{-5}$ per month

Temperature: $\pm 1 \times 10^{-5}$, 0 to 40°C

Line Voltage: $\pm 1 \times 10^{-7}$ for a 10% change in line voltage

Warm-up Time: 20 minutes

General Specifications

Display: 8 Digit LED with annunciators and decimal point

Power Requirements: AC line voltage: 100/120/220/240V $\pm 10\%$

Frequency: 48Hz to 66Hz

Power Consumption: Approx. 12VA

Operating Temperature: -5 to 50°C

Size: 3.0" H \times 8.0" W \times 10.0" D

Weight: 7 lbs.

Supplied Accessories: Manual, Power cord, BNC to Alligator clip input cable