

- 10 mHz to 3 GHz
- 3 GHz, 230 MHz (2), 3 inputs (A, B, C inputs)
- 100 MHz base clock
- 1 ppm/year stability
- 10 digits display
- Math operation
- GP-IB

The SC-7200 series is a lineup of highly reliable and user friendly multi-function universal counters. The SC-7207 — the top model of the SC-7200 series — provides full capabilities, including frequency, period, time interval, pulse width, phase, frequency ratio, duty factor and event accumulation measurement, with an excellent time base specification of 1 ppm/year stability. This model is suitable for R&D, QA and production.

Specifications

Frequency C Measuring time Frequency A

Measuring time

Frequency Line Measuring time Period A

Measuring time

Duty A Measuring time

Pulse width A

Measuring time

Frequency ratio A/B Measuring time Time interval A→B

Measuring time

Phase A→B Measuring time

Total A (Accumulation) Min pulse Measuring time Peak value Vp-A, Vp-B Resolution Bandwidth A, B input Input RC Max input voltage Sensitivity

Coupling Attenuator Filter Trigger Slope

+/-

50 MHz to 3 GHz 1 ms to 10s (5 steps gate), Input B 10 mHz to 230 MHz (DC) 10 Hz to 230 MHz (AC) 1 ms to 10s (5 steps gate), Single, Input B 45 Hz to 440 Hz 1 ms to 10s (5 steps gate) 5 ns to 100s (DC) 5 ns to 0.1s (AC) 1 ms to 10s (5 steps gate), Single, Input B 0 to 100% 1 ms to 10s (5 steps gate), Single 10 ns to 5s (1 ms to 10s gate) 10 ns to 100s (Single gate) 1 ms to 10s (5 steps gate), Single 1 x 10⁻¹⁰ to 1 x 10¹⁰ 1 ms to 10s (5 steps gate) 10 ns to 5s (1 ms to 10s gate) 10 ns to 100s (Single) 1 ms to 10s (5 steps), Single 0 to 360 degree 1 ms to 10s (5 steps gate), Single Up to 4,294,967,295 counts 2.5 ns Input B, Manual ±2.5 V (1:1), ±50 V (20:1) 10 mV (1:1), 100 mV (20:1) 150 Hz to 50 MHz 1 MΩ approx. //20 pF max. 200 V peak 30 mVrms (DC to 230 MHz: Manual Trigger, ATT 0 dB) AC/DC 0 dB (1:1), 26 dB (20:1) 10 kHz (on/off) Auto, Manual (±2.5 V)

C input Input R 50 Ω approx. Max input voltage Sensitivity Coupling Burst detect Standard time base Temperature coefficient Stability Output Input Coupling Input R Input voltage Display Update rate Masking Math Scaling Statistics Comparison **GP-IB Environmental condition** Operating Storage Power Voltage Frequency Consumption Weight Dimensions Accessories Options SC-702 SC-703 SC-704

+30 dBm -20 dBm (100 M to 300 MHz), -25 dBm (300 M to 1.5 GHz), -20 dBm (1.5 G to 3 GHz) AC Available 100 MHz (Synthesized from 10 MHz) ±2.5 ppm (0 to +40°C) ±1 ppm/year 10 MHz CMOS Intensity modulation output 10 MHz ±50 Hz AC 6.4 kΩ approx. 1 Vrms to 5 Vrms 16 digits (10 digits data) 0.1 to 200s with 0.1s resolution) 1 to 9 digits (X-a)/b, c/X, X-Xref Max, Min, Ave, Div 2 Threshold values Available 0 to +40°C/85%RH -20 to +60°C/90%RH AC100/110 to 120/220 to 240 V 50, 60, 400 Hz 36 VA max. (Included Full Option) 4 kg max. (Included Full Option) 260(W) x 100(H) x 310(L) mm 2.4 m Power cord (1), Manual (1) Comparator out/Ext trigger 0.02 ppm/day and 0.1 ppm/year 10 MHz 0.002 ppm/day and 0.05 ppm/year 10 MHz

Note: Only one of the SC-703 and SC-704 models is available.