



CMC251.

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Counter

CMC251

CHARACTERISTICS

Channel A

Frequency Range - 1 Hz to 100 MHz.

Sensitivity - 20 mV_{RMS}, 1 Hz to 30 MHz; 50 mV_{RMS}, 30 MHz to 100 MHz.

Attenuation - 3 V to 42 V (HI); 50 mV to 5 V (LO).

Max. Input Voltage -

1 Hz to 5 MHz: 42 V pk.

5 MHz to 100 MHz: 4.9 V pk.

Low Pass Filter - -3 dB at 100 kHz.

Impedance - 1.0 megaohm, paralleled by 40 pF.

Channel B

Frequency Range - 80 MHz to 1.3 GHz.

Sensitivity - 5 mV_{RMS}, 80 MHz to 600 MHz; 15 mV_{RMS}, 600 MHz to 900 MHz; 35 mV_{RMS}, 900 MHz to 1.3 GHz.

Impedance - 50 Ohm.

Max. Input Voltage - 1 V_{RMS}.

Period

Range -

Direct: 0.4 μ s to 1.0 s.

Prescale: 0.04 μ s to 1.0 s.

Resolution -

Direct: 100 ps to 100 ns.

Prescale: 10 ps to 10 ns.

Min. Pulse Width -

Direct: 0.2 μ s.

Prescale: 20 ns.

Frequency Range -

Direct: 1 Hz to 2.5 MHz.

Prescale: 1 Hz to 25 MHz.

Events Averaged (N) - 1, 10, 100, 1000, 10,000 cycles.

Totalize Range - 0 to 99,999,999.

Pulse Width

Range - 0.25 μ s to 0.5 s.

Period Range - 100 ps to 100 ns.

Events Averaged (N) - 1, 10, 100, or 1000 cycles.

Time Base Stability

Temperature - <1 ppm from 0° to 40°C.

10 % Line Voltage Change - <0.4 ppm.

Accuracy

Frequency - $\pm$ (time base error + 1 count).

Period - $\pm$ (time base error + 1 count + trigger error).

Pulse Width - $\pm$ (time base error + 1 count + trigger error + 10 ns).

Plus

Selectable Slope - No.

Ratio CH A: CH B - No.

Display Hold - Yes.

Remote Start/Stop - Yes.

Time Interval CH A: CH B - No.

Safety - UL1244, CSA231.

EMC - Meets Directive 89/336/EEC.

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Product manufactured in ISO 9002 registered facilities



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