

4001

5 MHz Ultra-Variable Pulse Generator



Product Features:

Four modes: run, triggered, gated, one-shot

Symmetrical square wave outputs

Variable output for CMOS circuits

Two simultaneously independent outputs (TTL and variable) with rise and fall times less than 30 ns

Overview:

The 4001 is designed to permit precise tailoring of pulse repetition rates and duty cycles over a wide range through the independent setting of pulse width and pulse spacing. Both are continuously variable over seven decade ranges from 100 ns to 1 s, with outputs from 0.5 Hz to 5 MHz. Four front panel push-button selectable operating modes can be used to produce a pulse train or enable a single output pulse. Pulse duration is determined by width control. Use the 4001 as a missing-pulse detector, to trace digital logic flow, to analyze microprocessor programs, for testing radio control receivers, or many other applications requiring a precision pulse source.

Specifications

Sensitivity	Trigger/Gate, DC couples, BNC connector, TTL compatible 40 ns wide, >2.4 Vpk or sine wave >1.7 Vrms
Outputs	3 outputs, DC coupled, BNC connector
VAR Impedance	Constant 50 Ω
VAR Amplitude	0.5-10 V into open circuit, 0.25-5.0 V driving 50 Ω , variable with amplitude control, rise/fall time less than 30 ns
TTL Drive	Standard TTL levels, buffered to drive up to 40 TTL loads, rise/fall time less than 20 ns
SYNC	+2.4V (TTL compatible pulse, buffered to drive min. 10 TTL loads)
SYNC Timing	20 ns pulse width, leads main outputs by >20 ns, rise/fall less than 20 ns
Run	0.5 Hz to 5 MHz continuous output pulse train; pulse width, spacing independently variable 100 ns to 1 s with 10:1 verniers over seven decade ranges, accurate $\pm 5\%$, calibrated at min., max. settings; jitter under 0.1% ± 5 ps
Trig	Pos edge of Trigger input, DC to 10 MHz, crossing 1 V threshold triggers single pulse, width determined by pulse width controls
Power	120 VAC, 60 Hz, 6 VA max (220 VAC, 50 Hz version available)
Dimensions (W x H x D)	10 x 7 x 3 in (254 x 178 x 76 mm)
Weight	2.2 lbs. (1.0 kg)



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