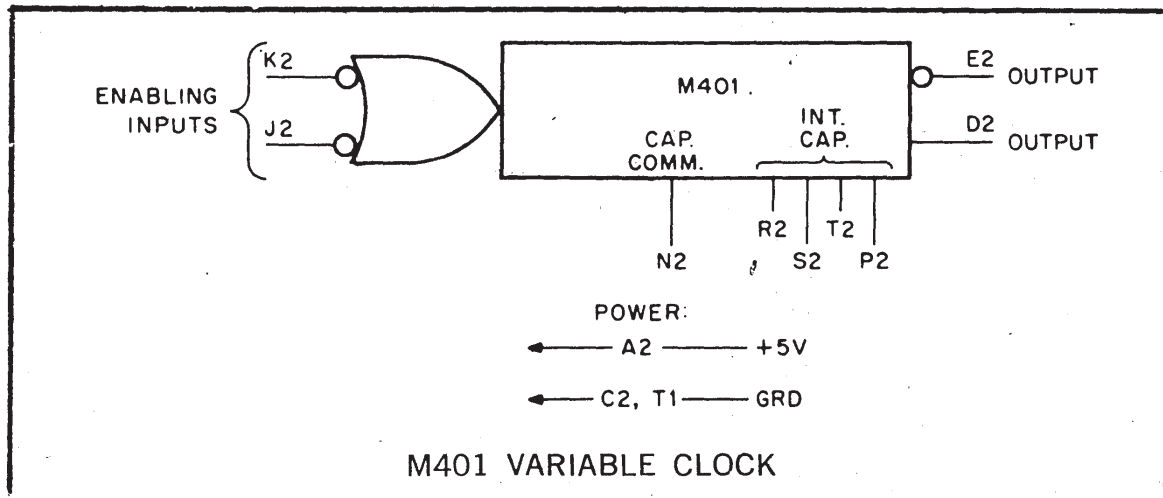


VARIABLE CLOCK

TYPE M401

M
SERIES



The M401 Variable Clock is a stable RC-coupled multivibrator which produces standard timing pulses at adjustable repetition rates.

The module is intended for use as the primary source of timing signals in a digital system. Repetition rate is adjustable from 175 Hz to 10 MHz in five ranges. Internal capacitors, selected by jumper pin connections, provide coarse frequency control. An internal potentiometer provides continuously variable adjustment within each range.

A two-input OR gating input is provided for start-stop control of the pulse train. A level change from high to low with fall time less than 400 nsec is required to enable the clock. Propagation delay from the low transition of the input to the leading edge of the first output pulse is typically 50 nsec. for the negative output pulse and 80 nsec for the positive output pulse. A 5% power supply deviation changes the PRF by less than 1.5%.

Frequency Range	Interconnections Required
1.5 MHz to 10 MHz	(100 pf) NONE
175 KHz to 1.75 MHz	(1000 pf) N2 — R2
17.5 KHz to 175 KHz	(.01 μ fd) N2 — S2
1.75 KHz to 17.5 KHz	(0.1 μ fd) N2 — T2
175 Hz to 1.75 KHz	(1.0 μ fd) N2 — P2

Fine Frequency Adjustment:

Controlled by an internal potentiometer. No provision is made for any external connections.

External capacitor may be added by connection between pin N2 and ground.

Inputs: Each enable input presents 1 unit load.

Outputs: The positive output can drive 10 unit loads; the negative output, 9 unit loads.

Power: +5 volts, 75 ma (avg)

M401 — \$55.00