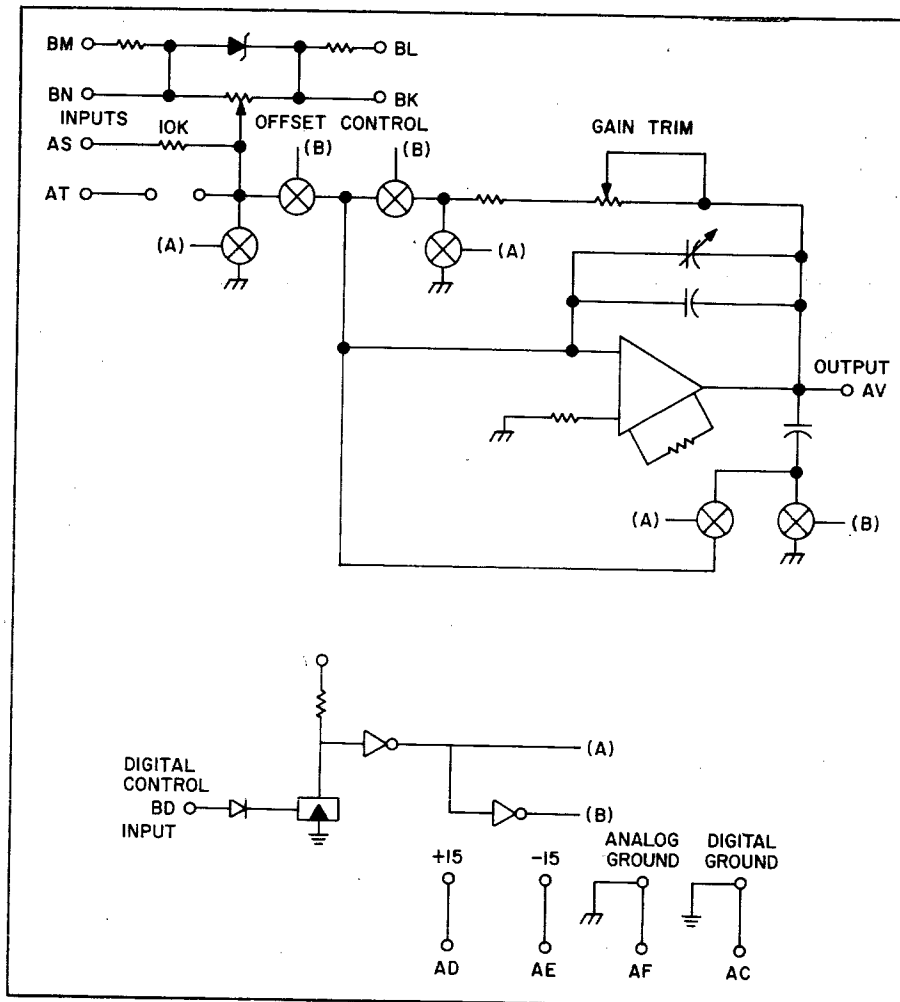


SAMPLE AND HOLD AMPLIFIER TYPE A400 (DOUBLE HEIGHT, DOUBLE WIDTH)

A SERIES



The A400 is an accurate sample and hold amplifier capable of tracking a full scale excursion in 12 micro-seconds to 0.025% accuracy. In the hold mode, the droop (a decay) is less than 1 millivolt per millisecond. Two analog inputs are provided. Pin AS is connected to a 10K Ω resistor which provides for unity gain. Pin AT is connected to a point which allows for the insertion of different resistors to effect a gain change. The resistor connected to this point must be a precision 1% resistor with a temperature coefficient of 25 ppm.

An optional internal offset network which uses the ± 15 volt supply can be included. Connections are made according to the following table:

TO OFFSET OUTPUT		
PIN	NEGATIVE	POSITIVE
BK	NO CONNECTION	-15 VOLT GROUND
BL	+15 VOLT SUPPLY	NO CONNECTION
BM	NO CONNECTION	-15 VOLT SUPPLY
BN	+15 VOLT GROUND	NO CONNECTION

Offsets of up to 6 volts can be achieved in this manner. The digital control input (BD) requires the standard -3 volt level to sample (track) and ground to hold.

wave forms and produce a time invariant output sufficient for analog to digital conversion. Several sample and holds may be used to simultaneously sample a number of inputs and be multiplexed into an A to D converter. The A-400 is mounted on a double height double width board. Therefore, the unit requires 4 card slots (2 x 2).

The A400 can be used to sample fast time varying

TRACK TIME TO 0.025%:	12 μ sec
APERTURE:	Less than 150 nanosec
DROOP:	Less than 1 volt/sec
GAIN:	1.000 (Adjustable to 0.025%)
INPUT IMPEDANCE:	10K Ω \pm 0.1% (AT)
FULL SCALE INPUT:	\pm 10 Volts
OUTPUT CURRENT:	10 MA
TEMPERATURE COEFFICIENT (IN SAMPLE):	20 μ volt/ $^{\circ}$ C Offset
TEMPERATURE COEFFICIENT (IN HOLD):	0.10 Volt/Sec/ $^{\circ}$ C
POWER REQUIREMENTS:	\pm 15 Volts/50 MA

A400	\$330.00
Optional Offset	50.00