

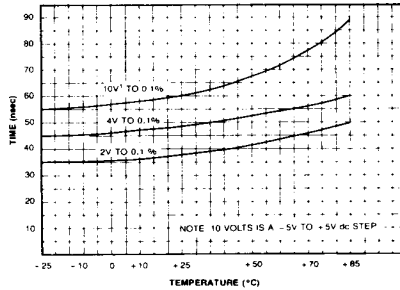
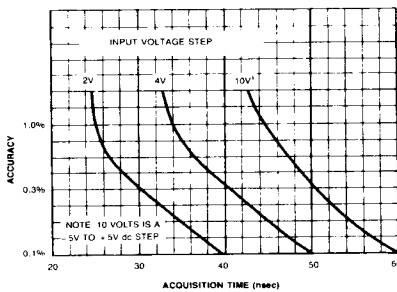
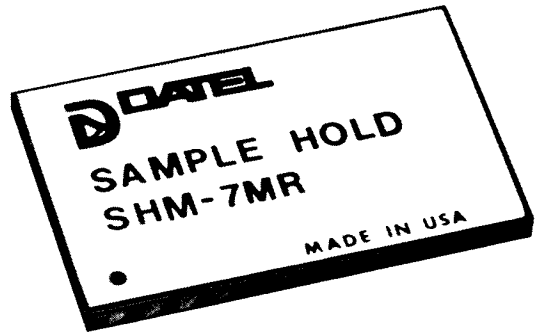
FEATURES

- 40 Nanoseconds acquisition time
- Dual outputs
- 10 Picoseconds aperture uncertainty
- 40 MHz Bandwidth
- 30 mA Output current

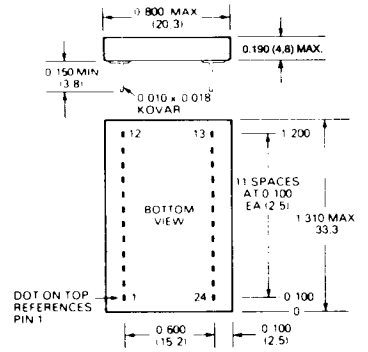
GENERAL DESCRIPTION

DATEL's SHM-7 is an ultra-fast sample and hold designed for high-speed analog signal processing applications. The SHM-7 acquires a 2V dc input change to 0.1% in only 40 nanoseconds and aperture uncertainty time is less than 10 picoseconds. Sample-mode bandwidth is 40 MHz.

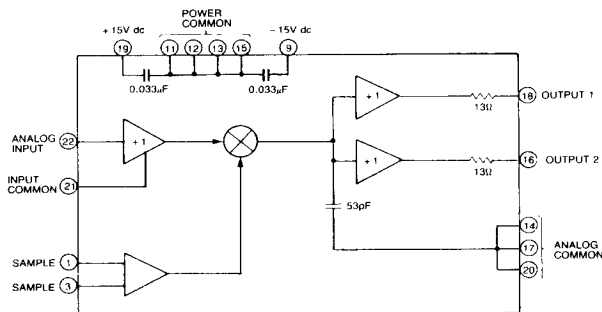
The SHM-7 is a complete sample-hold, containing an input buffer amplifier, a precision 53 pF MOS holding capacitor, and two output buffer amplifiers. The sampling switch is controlled by a series 10,000 complementary ECL input. An ECL differential line driver can be conveniently used for the sample control inputs.



MECHANICAL DIMENSIONS
INCHES (MM)



INPUT/OUTPUT CONNECTIONS



PIN	FUNCTION	PIN	FUNCTION
1	SAMPLE	13	POWER COM
2	N.C.	14	ANALOG COM
3	SAMPLE	15	POWER COM
4	N.C.	16	OUTPUT 2
5	N.C.	17	ANALOG COM
6	N.C.	18	OUTPUT 1
7	N.C.	19	+15V dc
8	N.C.	20	ANALOG COM
9	-15V dc	21	INPUT COM
10	N.C.	22	ANALOG INPUT
11	POWER COM	23	N.C.
12	POWER COM	24	N.C.

