

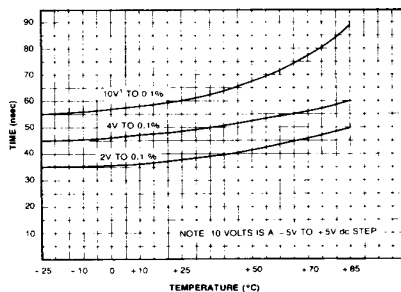
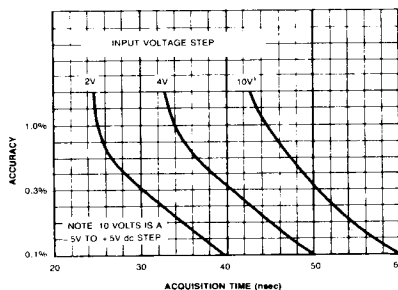
#### FEATURES

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

#### GENERAL DESCRIPTION

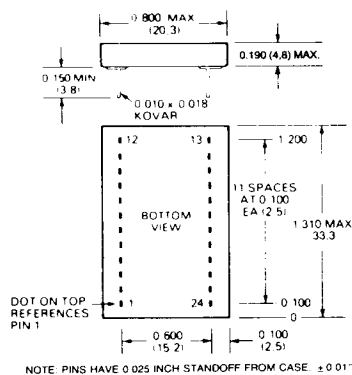
DATEL's SHM-7 is an ultra-fast sample and hold designed for high-speed analog signal processing applications. The SHM-7 acquires a 2V dc input change to 0.1% in only 40 nanoseconds and aperture uncertainty time is less than 10 picoseconds. Sample-mode bandwidth is 40 MHz.

The SHM-7 is a complete sample-and-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.         |

