

intech

ADVANCED ANALOG

ASH-250

FAST SAMPLE AND HOLD

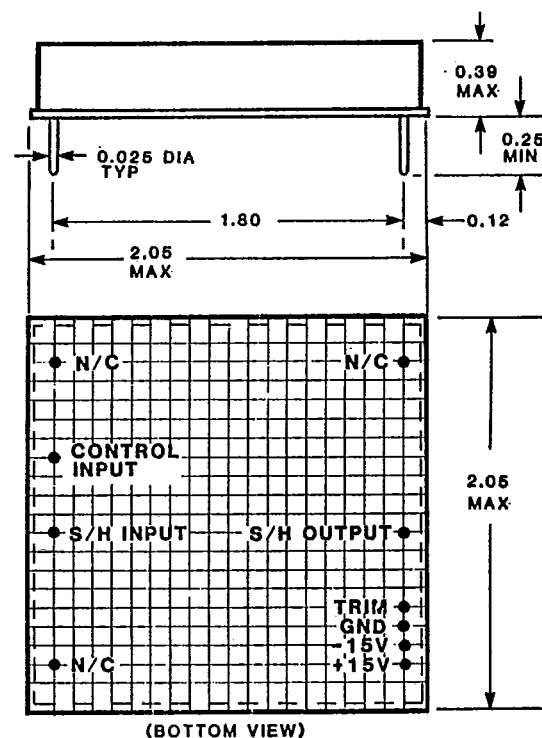
DESCRIPTION

The Intech ASH-250 Sample and Hold is designed for fast acquisition, where excellent performance, small size and low cost are key factors. For ASH-250 version utilizing hermetically sealed components specify ASH-250-M.

Parameters	ASH-250	Unit
SAMPLE MODE		
Input Voltage F.S.	± 10	V
Input Voltage W/O Damage	± 15	V
Gain	+1.000	$\pm 0.01\%$
Slew Rate	100	V/ μ s
Input Impedence	1000	m Ω
Nonlinearity	0.01	%
Settling Time 20V step, .01%	5	μ s
Input Current	20	mA
SAMPLE TO HOLD		
Aperture Time	50	ns
HOLD MODE		
Output Voltage	± 10	V
Output Current	± 20	mA
Output Impedence	.001	Ω Typ.
Droop Rate	15	μ V/ms
Feedthrough	-86	db, DC to 1 MHz
Output Offset	Adj. to 0	
Offset vs. Temp.	20	μ V/ $^{\circ}$ C
Offset vs. Supply	50	μ V/%
Noise	500	μ V(P-P)
HOLD TO SAMPLE		
Acquisition Time	5	μ s
CONTROL INPUT		
Type	TTL	
Sample Mode	.25, ± 25 , @ 1.5	V, V, mA
Hold Mode	3.5, ± 1 , @ 100	V, V, μ A
POWER REQUIREMENTS		
Physical Size	$2.0 \times 2.0 \times .39$	Inches
TEMPERATURE RANGE		
Operating	0 to +70	$^{\circ}$ C
Storage	-25 to +85	$^{\circ}$ C
OPTIONS		
Specify "M" Version	Hermetically Sealed Components	

FEATURES

- 5 μ s. Acquisition Time
- 50 ns. Aperture Time
- 0.01% Accuracy
- Low Cost
- Pin for Pin Replacement for Analogic MP-250

MECHANICAL OUTLINE & PIN DESIGNATION

(BOTTOM VIEW)

DIMENSIONS ARE IN INCHES

* For offset adjustment use 2 K Ω pot. between +15V and Trim.

3-8601

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2270 MARTIN AVENUE, SANTA CLARA, CALIFORNIA 95050-2781
TELEPHONE (408) 988-4930

TWX 910-338-2213