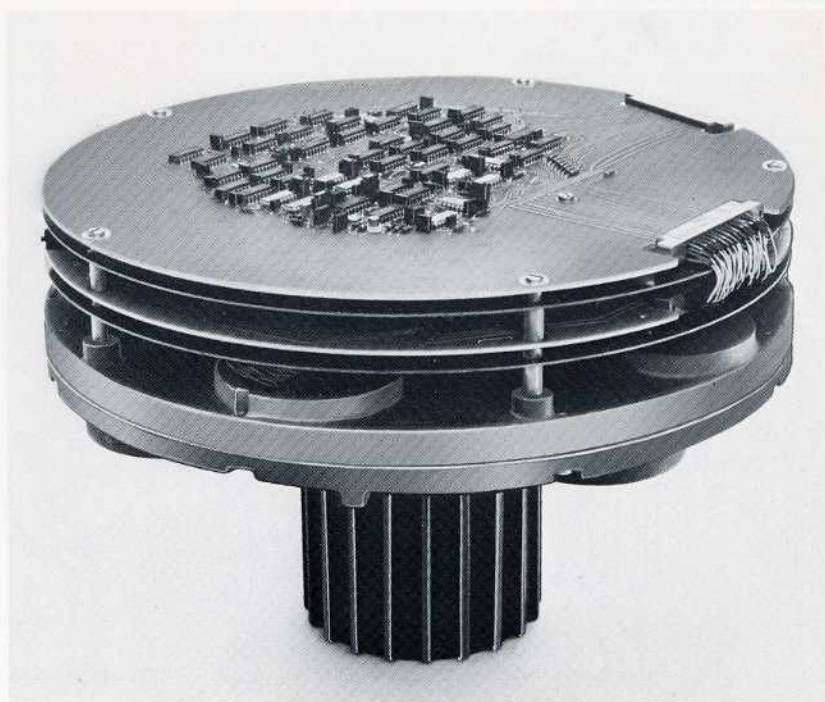


LIBRASCOPE

Series L107 Disc Memory System

Model L107B



TECHNICAL DATA

The Model L107B Disc Memory System, designed and manufactured by Librascope Division of The Singer Company, is the latest in small, low cost, fast random access, head per track disc file products.

With data storage of up to 18 million bits on 256 data tracks, all in a 14.7 inch diameter x 13 inch package, it is the most compact disc file system available today. Index, sector, and master bit clocks are provided. The total system weighs only 41 pounds.

FEATURES

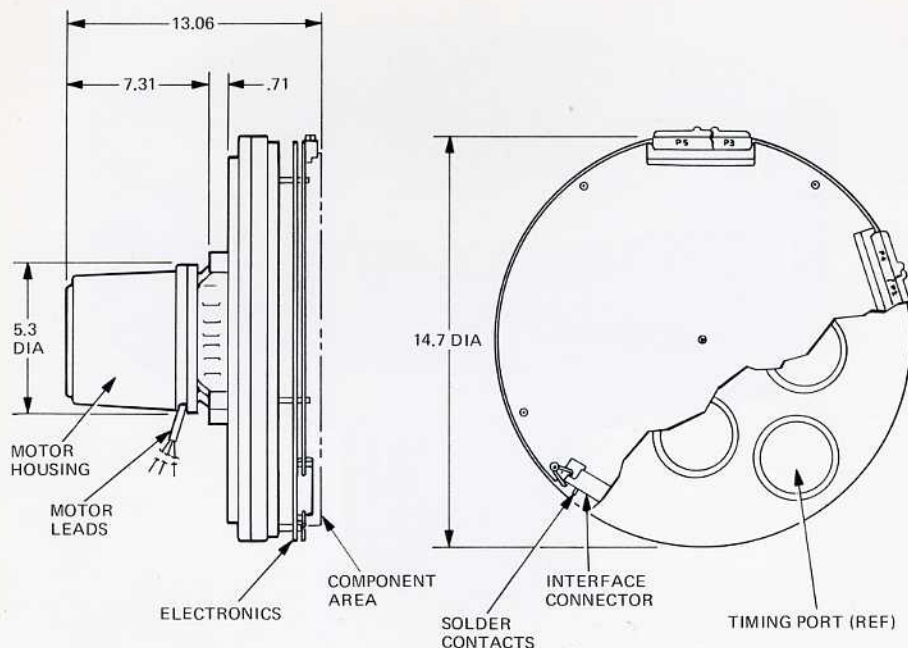
Model L107B memories include read, write, head select, and clock electronics. The simplified

NRZ electronic interface utilizes TTL ceramic integrated circuits. The recording mode is bit serial, block alterable, and self clocked. All L107A and B memories in this series have the same electronic interface and mounting can be in any attitude.

Data is stored on a 14-inch nickel cobalt plated disc. Recording is a modified form of phase modulation. All L107B memories are expandable to the maximum of 256 tracks.

The Series L107 features long life, no preventative maintenance, high reliability, low error rate, and rugged environmental operating specifications such as 10G shock without isolators.

MEMORY DIMENSIONS



PHYSICAL SPECIFICATIONS

Dimensions 13.06 in. high x 14.7 dia.
Weight 41 pounds max.

OPERATING ENVIRONMENT

Temperature . . . 0°C to 55°C.
Cross Tem-
perature 55°C.
Humidity 90% R.H. without
condensation.
Shock 10-Gs 11-msec duration (no
shock isolators required).
Vibration . . . 1.3 Gs acceleration max., 5 Hz
to 50 Hz (no shock isolators
required).

NONOPERATING ENVIRONMENT

Temperature . . . -50°C to +75°C.
Humidity 95% relative humidity, no
condensation.
Shock 15-Gs 11-msec duration (with
no shock isolators).
Vibration Mil-Std-810B, Method 514,
category (g) equipment
specification used as a guide-
line. This equipment cate-
gory is for shipment by
common carrier, land or air.

POWER REQUIREMENTS

Disc 115VAC, 50/60 Hz, single
phase 2.5A Running.
Electronics . . . +5VDC @ 2.0A.
-5VDC @ 0.35A.
+25VDC @ 0.2A.

GENERAL SPECIFICATIONS

MODEL L107B-8	1128	2256
Capacity, Bits x 10 ⁶	5.1	10.2
Data Heads	128	256
Bits/Track, max.	40,000	
Clock Frequency, MHz, max.	2.4	
Speed, Rotation, RPM	3,600	
Access Time, MS, ave.	8.5	

MODEL L107B-17	1128	2256
Capacity, Bits x 10 ⁶	8.9	17.9
Data Heads	128	256
Bits/Track, max.	70,000	
Clock Frequency, MHz, max.	2.1	
Speed, Rotation, RPM	1,800	
Access Time, MS, ave.	17	

MODELS L107B-8 AND L107B-17

Switching Times	
Write to read, μ s	10
Track Selection, μ s	10
Read to Write, Bits	4
Preamble, Bits	7
Postamble, Bits	1
Data Bits per Block (Sector)	Customer Specified
Blocks per Revolution	Customer Specified
Max. Starting Time, Seconds	30
Slip, Percent, max.	10

SINGER

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