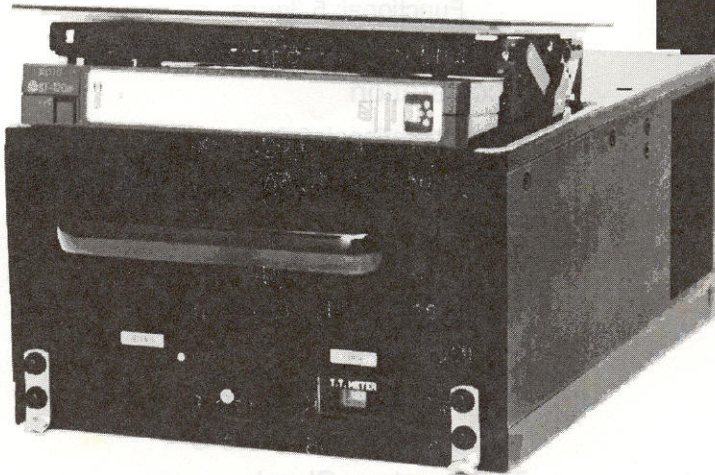


V-325 ANALOG HIGH- BANDWIDTH AIRBORNE CASSETTE RECORDER/ REPRODUCER



The V-325 High Bandwidth Analog Cassette Recorder/Reproducer has been specifically designed to provide maximum waveform recording flexibility in severe environment and harsh airborne applications. Its high bandwidth performance satisfies recording requirements of up to 12MHz. With its unique signal interface design, the V-325 can accept, record and play back virtually any input waveform, from DC up to its specified maximum bandwidth. This feature makes the V-325 particularly well suited for direct recording of a variety of analog data devices and imaging sensors without the need for special input/output signal formatting.

RECORDER TYPE

2-Head Rotary Helical Scan, Cassette

MEDIA

ST-120 850 Oe 1/2" Magnetic Tape Cassette

RECORD/PLAYBACK TIME

40 Minutes with ST-120 Cassette

PHYSICAL CHARACTERISTICS

Size: 8.35" Wide x 5.08" High x 13.33" Deep (Less Tray)

Weight: Less than 20lbs (Less Cassette and Tray)

POWER REQUIREMENTS

Source: 28VDC per MIL-STD-704D

Consumption: Under 50Watts, Less Heaters

FEATURES

- ◆ High Analog Bandwidth: 12MHz
- ◆ Signal to Noise Ratio: 40dB
- ◆ Automatic Gain and Offset Control
- ◆ Time Base Collection
- ◆ Digital Automatic Tracking Control
- ◆ One Audio, Two Auxiliary Channels
- ◆ Designed for MIL-E-5400 Environment
- ◆ Designed for Compliance with MIL-STD-461/462 and 704D
- ◆ Performance Monitoring via Built-In-Test: Initiated, Continuous
- ◆ Command/Status: RS-422 or Discrete Parallel
- ◆ Event Marking, Detection, Search

SPECIFICATIONS

HIGH BANDWIDTH CHANNEL

1Ch. DC to 12MHz Bandwidth
SNR \geq 40dB
Automatic Gain/Offset Control
Helical-scan FM Recording
with Time-Base Correction
I/O: 0~1V, 75 Ω DC Balanced

AUDIO CHANNEL

1Ch. 200Hz to 20KHz Bandwidth
SNR \geq 38dB
AC Bias Longitudinal
Overplay Capability
I/O: 1.1Vp-p 10K Ω /100 Ω AC, AGC

AUXILIARY CHANNELS

Analog :2Ch.
80Hz to 60KHz Bandwidth
SNR \geq 50dB
Deep-Layer Helical-scan, FM
I/O: 1.1Vp-p 10K Ω /600 Ω AC, AGC

COMMAND/STATUS INTERFACE

RS-422-A, Discrete Parallel

POWER

\leq 50W 28VDC per MIL-STD-704D, Less Heater
 \leq 150W 28VDC per MIL-STD-704D, with Heater

BUILT-IN-TEST

Initiated and Continuous

SIZE

8.35" Wide x 5.08" High x 13.33" Deep, Less Tray

WEIGHT

Less than 20lbs (9.1Kg), Less Cassette and Tray

ENVIRONMENTAL PERFORMANCE*

Vibration

Functional: 5.3grms
Endurance: 15grms

Acceleration

Operational: 9.0g, -z axis: 4g
Structural: 13.5g

Shock

Operational: 20g, 11msec
Crash Safety: 40g, 20msec

Temperature

Operating: -40 to +55 $^{\circ}$ C
Storage: -55 to +85 $^{\circ}$ C

Temperature Shock

Non-Operating: -57 to +71 $^{\circ}$ C

Altitude

Operating: 0-50,000feet

Explosive Atmosphere

Method 511.2, Procedure 1

Humidity

95%, 10days

Salt Fog

48Hours

EMI

Per MIL-STD-461C, -462

*Unless otherwise noted, designed in accordance with testing per MIL-STD-810D.