American National Standard for video recording—¾-in type E helical scan—small video cassette

Approved April 4, 1983

Secretariat: Society of Motion Picture and Television Engineers

1. Scope

This standard specifies the dimensions of a video cassette for use with a ¾-in Type E helical-scan video tape recording cassette system, operating at a tape speed of 95.3 mm/s (3.75 in/s).

2. Reference Standard

The following American National Standard is intended to be used in conjunction with this standard:

ANSI C98.21M-1980, Dimensions and Location of Records for ¾-in Type E Helical-Scan Video Tape Cassette Recording

3. Datum Planes

3.1 Datum Plane A is the plane determined by Spots A, B, and C in Fig. 5.

3.2 Datum Plane B is the plane that includes the center of Datum Holes (a) and (b) and is orthogonal to Datum Plane A. Datum Holes (a) and (b) are specified in Fig. 2.

3.3 Datum Plane C includes Datum Hole (a) and is orthogonal to both Datum Planes A and B.

4. Dimensions

4.1 The dimensions necessary for the interface of equipment shall be as specified in the figures and table.

4.2 The metric dimensions are primary.

5. Measurement Environment

The temperature shall be 20 ± 1°C (68 ± 2°F) with a relative humidity of 50 ± 2 percent.

Table 1
Dimensional Tolerances Not Otherwise Specified

Millimeters			Inches		
Over	To	Tolerances	Over	To	Tolerances
0.0	4.0	± 0.2	0.000	0.157	± 0.008
4.0	16.0	± 0.3	0.157	0.630	± 0.012
16.0	63.0	± 0.4	0.630	2.480	± 0.016
63.0	250.0	± 0.5	2.480	9.843	± 0.020

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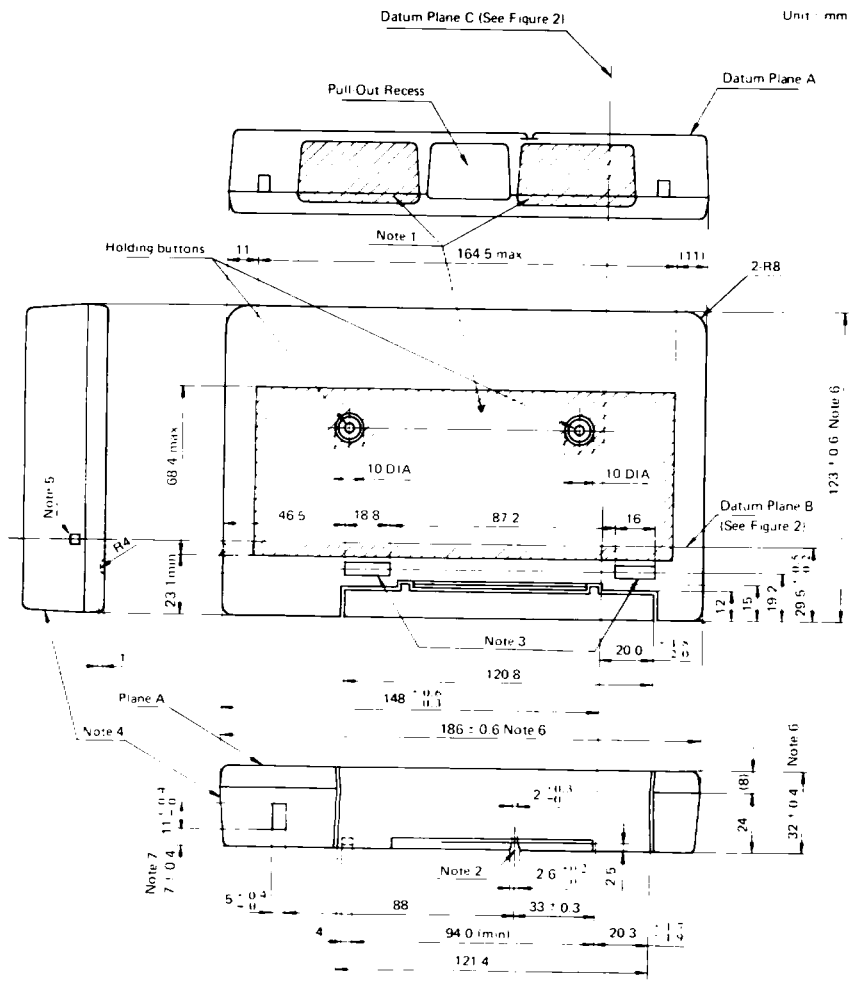

Fig. 1
Top View of Video Cassette

NOTES:

1. Hatched area shows the label area and/or window area.
2. Guide groove.
3. Holding groove.
4. The outer edges should be slanted, but not more than 5° from vertical.
5. An adaptor recess should be on both sides.
6. These dimensions are inspected by using limit gauges.
7. The dimension shall be specified from Datum Plane A. (See Fig. 5.)