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SMPTE STANDARD**ANSI/SMPTE 206-1998**Revision of
ANSI/SMPTE 206-1993

for Motion-Picture Equipment (8-mm Type S) — Model 1 Sound Camera Cartridge — Aperture, Profile, Film Position, Pressure Pad and Flatness (200-ft Capacity)



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1 Scope

This standard specifies the dimensions and location of the cartridge aperture, pressure pad, and characteristics necessary for its appropriate flatness, clearance, and location of film in the camera aperture of 200-ft (60-m) capacity 8-mm type S model 1 sound motion-picture film camera cartridges.

2 Dimensions

2.1 The dimensions shall be as given in the figures and tables.

2.2 The dimensions shown in figures 1 and 3 and tables 1 and 3 apply to a cartridge that is fully assembled but does not contain film. The dimensions shown in figure 2 and table 2 apply to an assembled cartridge with a film load at the time of manufacture.

2.3 The datum planes and datum features used for dimensioning are as defined in 2.3, 2.3.1, 2.4, 2.4.1, and 2.4.2 of ANSI/SMPTE 205.

2.4 Dimensions T and U denote the lateral location of the film in the cartridge before insertion in the camera. After insertion, dimension T becomes 0.060 in (1.52 mm) minimum and dimension U becomes 0.050 in (1.27 mm) minimum.

2.5 All dimensions in table 1, except dimensions A and C, apply at the front surface of the pressure pad. A draft of 5° to the recess area is permitted as well as an inside or outside radius of 0.005 in (0.13 mm) at all corners to provide satisfactory mold release when the pressure pad is manufactured in a molding process

2.6 Dimension A denotes the space available from datum plane C for penetration of the camera film alignment guide wings or the camera claw into the recessed area of the cartridge pressure pad.

2.7 Dimension B is measured from datum plane C and determines the operating position of the cartridge pressure pad.

2.8 Dimensions relative to the surface of the pressure pad are measured from a plane established through surfaces 1, 2, and 3, as defined by 0.060-in (1.52-mm) diameter circles dimensionally centered (see figure 3 and table 4). The actual camera aperture bosses may deviate from this shape.

2.9 Dimension G_2 specifies the clearance for film in the camera aperture area, based on dimension T_2 , the thickness of the film in the center of the picture area (see note 1).

2.10 Dimension G'_2 specifies the extension of the camera aperture plate boss points (corresponding to 1, 2, and 3) beyond the aperture plate plane at the aperture opening.

2.11 The upper and lower pad areas extend from dimension C_2 to the top and bottom of the cartridge pressure pad within dimension K_2 .

2.12 Dimension H_2 is intended to apply from a plane as described in 2.8.

2.13 The plus values given for the pressure pad film surface flatness tolerances are to be directed toward the lens (see note 2).

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