

SMPTE RECOMMENDED PRACTICE

RP 64-1981
Revision of
RP 64-1976

Specifications for Sound-Focusing Test Film for 35-mm Sound Reproducers, Photographic Type

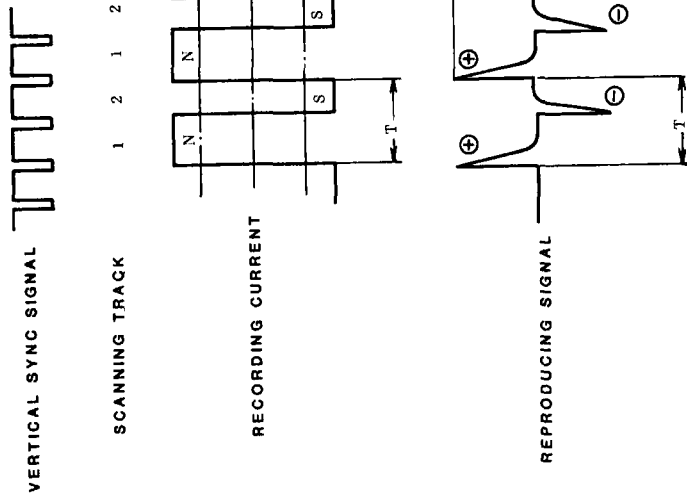


Fig. 5
Control Signal Waveform and Polarity

1. **Scope**
This practice specifies a test film for use in focusing the scanning beam of 35-mm motion-picture photographic sound reproducers operating at 90 ft (27.4 m) per minute.
2. **Test Film Signal**
2.1 Frequency: The sound record on the film shall reproduce at a frequency of 9000 ± 100 Hz (Type A) or 7000 ± 100 Hz (Type B) when the linear speed of the film is 96 perforations per second or approximately 90 ft per minute (18 in or 45.7 cm per second).
2.1.1 Type A: A film with a 9000-Hz record to be used by manufacturers and laboratories, for precise adjustment of the sound-focusing system.
2.1.2 Type B: A film with a 7000-Hz record to be used when simpler instruments are available or when lower quality is adequate, for quick adjustment of the sound-focusing system.
2.2 Distortion: The total harmonic distortion of the recorded signals shall not exceed 1 percent.
2.3 Sound Record: The location and dimensions of the recorded sound records shall be in accordance with American National Standard Position Dimensions and Reproducing Speed of Photographic Sound Records on 35-mm Motion-Picture Release Prints, ANSI PH22.10-1978.
3. **Film Stock**
The film stock shall be splice-free, of the low-shrinkage safety type in compliance with American National Standard Specifications for Motion-Picture Safety Film, ANSI PH22.31M-1980, and cut and perforated in accordance with long-pitch dimensions specified in American National Standard Dimensions for 35-mm Motion-Picture Film Performed KS, ANSI PH22.139-1980.
4. **Identification**
Each test film shall be identified by a suitable identification marking. This marking shall be printed lengthwise in the central portion of the film and the spacing between consecutive titles shall be approximately 12 in (30 cm).

NOTE: Test films conforming to this practice are available from the Society of Motion Picture and Television Engineers.

- 2.4 Recording: The film shall be a print from an original negative and shall contain a sinusoidal, variable-area record recorded at 1 dB below 100 percent modulation. The variation in amplitude shall not be more than ± 0.25 dB.
- 2.5 Flutter: The weighted peak flutter of the sound record shall not exceed ± 0.04 percent when measured in accordance with American National Standard Method for Measurement of Weighted Peak Flutter of Sound Recording and Reproducing Equipment, ANSI/IEEE Std 193-1971.
- 2.6 Azimuth: The azimuth of the sound record shall be $90^\circ \pm 5^\circ$ to the reference edge of the film.

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