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## ANSI/ASA S1.11 (1986) Standard Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters

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### Abbreviation

ANSI/ASA S1.11 (1986)

### Valid from

16/07/1986

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### Information provider

IHS Markit

### Author

American National Standards Institute  
Acoustical Society of America

### Information type

Other Standard

### Format

PDF & Hard copy

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### Cited By

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### Description

The purpose of this American National Standard Specification for Octave-Band and Fractional-Octave-Band Analog and Digital Filters is to specify the geometric mean frequencies, bandedge frequencies, band-widths, attenuation characteristics, bandwidth error, and other pertinent design parameters for constant-percentage-bandwidth bandpass filters so that spectral analyses made with filters conforming to the specified performance requirements will be consistent within known tolerance limits.

### Scope

The scope of this standard specification includes bandpass filter sets suitable for analyzing electrical signals as a function of frequency. The bandwidth of the filters is a constant percentage of the midband frequency of each filter band. The scope includes passive, active, and sampled-data bandpass filters obtained by any design realization procedure. All filters, including fractional-octave-band filters synthesized by Discrete Fourier Transform (FFT) techniques shall meet all electrical requirements of the standard. Three frequency ranges of filter sets are described for use in the audio-frequency range where the reference frequency is one kilohertz. The filters in a filter set may be of any filter design Order. Four filter Types and five Sub-Types are established based on the amount of passband ripple and on the bandwidth error for both white noise and random noise having specified moderately sloping spectral distributions.

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- [ASTM E336-90](#)

ANSI/ASA S1.11 (1986) is cited by ASTM E336-90 Method for measurement of airborne sound insulation in buildings

- [ASTM E492-90](#)

ANSI/ASA S1.11 (1986) is cited by ASTM E492-90 Test Method of Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine

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