

Whether developing next-generation integrated circuits, or high-performance analog amplifiers and professional audio equipment, engineers continue to push the boundaries of performance with their designs. Debugging, validating and characterizing the performance of these devices requires test equipment with even greater performance, especially in the

## APx555 B Series Audio Analyzer

### High-performance, modular 2-channel audio analyzer

**The New Standard:** The B Series APx555 is the highest performance and most versatile audio analyzer ever made, specifically designed for audio engineers requiring the lowest distortion and greatest flexibility possible.

- ▶ Typical THD+N of -120 dB (1 kHz, 2.0 V)
- ▶ Measurement bandwidth over 1 MHz on two channels
- ▶ Unique analog-digital architecture enables uncompromised analog measurements surpassing all other instruments
- ▶ Advance DSP measurements offer a wide array of precise, high-speed measurements

#### KEY FEATURES

- High-Performance Analog Hardware Architecture
- APx500 Software with Bench Mode
- Advanced Digital I/O
- Advanced Master Clock
- Optional Digital Interfaces
  - Digital Serial
  - PDM
  - HDMI
  - Bluetooth



areas of residual THD+N distortion, high-frequency and low-distortion signal generation, and high-frequency analysis. From the “classic standard” 2700 Series to the “new standard” APx555 B Series, audio analyzers from Audio Precision directly address the demanding requirements of design engineers around the world.

## 2700 Series Audio Analyzers

### High-performance, 2-channel audio analyzers

**The Classic Standard:** Combining dual-domain functionality with very low distortion and noise performance, the 2700 Series is the classic standard for audio analysis, perfect for audio engineers who need high performance, low distortion and flexibility.

- ▶ True dual-domain architecture enables simultaneous stimulus and measurement of both analog and digital signals
- ▶ Analog generator and analyzer performance surpasses digital-only, converter-based designs
- ▶ Selected by audio engineers for its performance, low-distortion and reliability

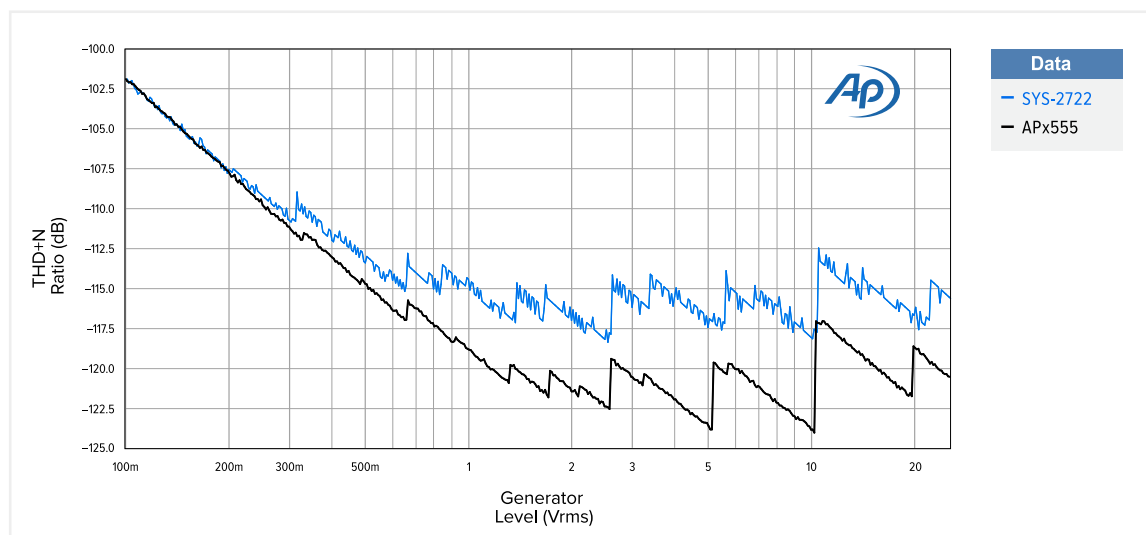
#### KEY FEATURES

- Low residual THD+N: Typical -115 dB (1 kHz, 2.0 V)
- Dual Domain: 500 kHz Analog, 216 kS/s Digital
- Generate and analyze a wide range of waveforms
- Chip-level connectivity with PSIA-2722
- Switcher support up to 192 channels
- DCX-127 Multifunction support



Analog Analyzer	APx555 B Series	2700 Series
Independent Analyzer Channels	2	2
Maximum Rated Input	160 / 300 Vrms	160 Vrms
Residual Input Noise (22 kHz BW)	1.0 $\mu$ V	1.0 $\mu$ V
Input Crosstalk	140 dB to 20 kHz	140 dB to 20 kHz
CMRR	90 dB to 5 kHz 80 dB to 20 kHz	80 dB to 20 kHz
Amplitude Accuracy (1 kHz)	0.03 / 0.05 dB	0.05 dB
Amplitude Flatness (20 Hz - 20 kHz)	0.008 dB	0.008 / 0.03 dB
Residual THD+N (22 kHz BW)	-117 dB, $V_{in} \leq 9.3$ V -115 dB, $V_{in} > 9.3$ V	-112 dB, $V_{in} \leq 9.3$ V -110.5 dB, $V_{in} > 9.3$ V
Maximum FFT Frequency	1 MHz	130 kHz
Maximum FFT Length	1.2M	32k

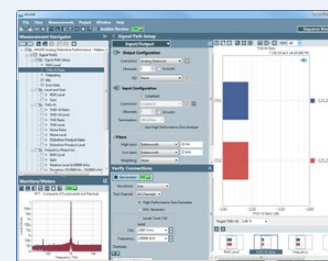
Analog Generator	APx555 B Series	2700 Series
Independent Output Channels	2	2
Maximum Output Vrms (Unb / Bal)	13.33 / 26.66	13.33 / 26.66
Maximum Output, dBm (600 Bal)	+30.17 dBm	+30.17 dBm
Amplitude Accuracy (1 kHz)	0.03 / 0.04 dB	0.06 dB
Amplitude Flatness (20 Hz - 20 kHz)	0.008 dB	0.008 dB
Sine Frequency Range	0.001 Hz – 80 kHz (DAC) 5 Hz – 204 kHz (Osc)	10 Hz – 60 kHz (DAC) 10 Hz – 204 kHz (Osc)
Common Mode Test	Yes	Yes
IEC Common Mode Test	Yes	No



## APx500 Software

### A versatile, powerful audio test experience.

This bold new interface offers users two easy-to-use modes. Choose between Sequence Mode for fast production testing and automated measurements, and Bench Mode for real-time visibility into device behavior across a variety of parameters.



#### SEQUENCE MODE:

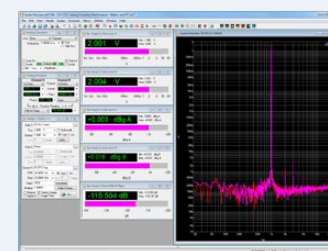
Built-in interface for quick, sequenced testing and code-free automation.



#### BENCH MODE:

New, 2700 Series-inspired interface provides complete test flexibility with real-time feedback, enabling rapid insight into the relationships between stimulus and results.

## 2700 Series Software



#### The Classic Standard.

The 2700 Series user-interface provides users with test flexibility, hardware function-aligned panels and real-time interaction between stimulus and results.