

Chapter 3

Specifications

NP0020.00012 r000

Characteristic	Specifications	Supplemental Information
ELECTRICAL		
Maximum Rated Input	± 200 Vpk; 140 Vrms, 20 Hz to 5 kHz, decreasing to 90 Vrms at 20 kHz	Intended for testing switch-mode (class-D) audio power amplifiers rated up to 1000 W into 8 Ω . Maximum out-of-band signal must not exceed 60 Vrms from 20 kHz to 80 kHz, or 90 Vrms above 80 kHz.
Frequency Response ^{1,2}	± 0.05 dB, 20 Hz to 20 kHz	
Insertion Loss ^{1,2}	Typically 0.05 dB at 1 kHz	
High-Frequency Rejection	Typically >50 dB, 250 kHz to 20 MHz	
Interchannel Crosstalk AUX-0025	90 dB at 20 kHz	
Distortion	-110 dB THD+N (70 Vpp, 1 kHz); -100 dB DFD (70 Vpp, 18 kHz + 20 kHz test tones, DFD products are at 2 kHz, 16 kHz, and 22 kHz)	
GENERAL / ENVIRONMENTAL		
Power Requirements	None	
Temperature Range		
Operating	0 C to +45 C	
Storage	-40 C to +75 C	
Humidity	90 % to +40 C (non-condensing)	
Max Operating Altitude	3000 m	
Stabilization Time	None	
Dimensions		
AUX-0025	419 x 44 x 267 mm [16.50 x 1.75 x 10.51 inches]	
Weight		
AUX-0025	3.3 kg [7.2 lbs]	

NOTES to SPECIFICATIONS:

- 1 Source impedance must be 2 Ω or less to 20 kHz.
- 2 Total loading capacitance of the analyzer input and interconnection cable must not exceed 360 pF, each side to ground.

Filter Response Graphs

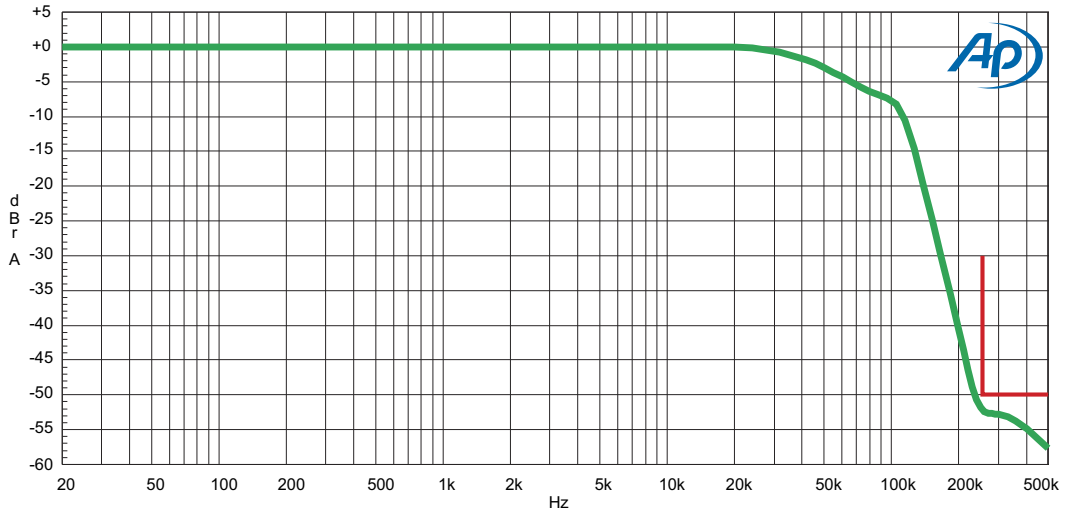


Figure 6. AUX-0025 overall response showing attenuation beyond the audio band.

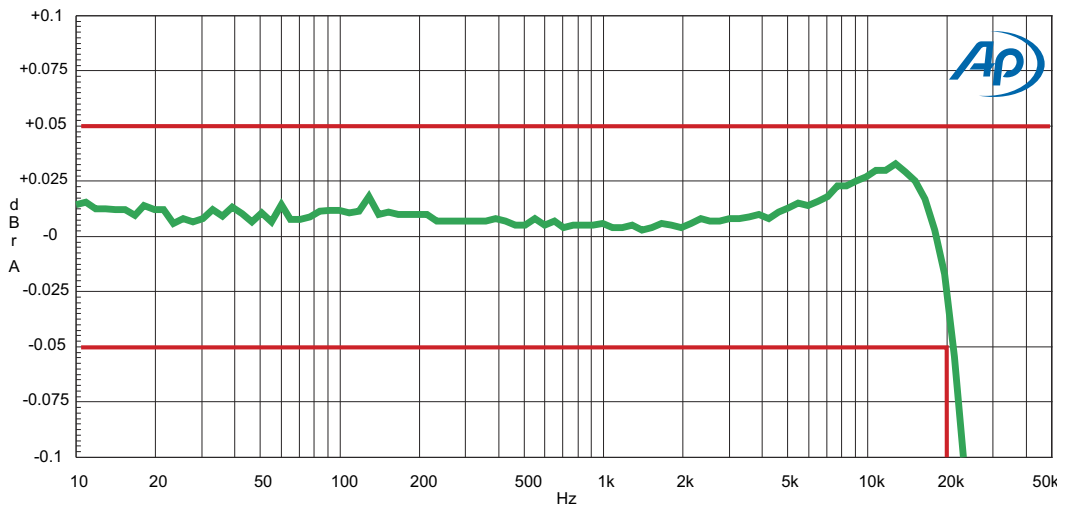


Figure 7. AUX-0025 passband response showing flatness out to 20 kHz.