

# Banyan Pith

*Dual 12 inch Powered Subwoofer*

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**1200 W**

POWER RMS

**96 dB**

SENSITIVITY

**4  $\Omega$**

IMPEDANCE

**333 mm**

DEPTH

# Technical Specifications

## ACOUSTIC PERFORMANCE

Power RMS	1200 W
Power Peak	—
Sensitivity	96 dB / 1W / 1m
Impedance	4 Ω
Max SPL	128 dB
THD+N	—
Frequency Range	27 Hz – 0 kHz –6dB
Directivity H	—
Directivity V	—
Driver Config	Dual 12 inch Subwoofers
Crossover	Subwoofer LP only — managed by Banyan DSP Module
Crossover Freq	200 Hz (rec.)
EQ Profile	Default

## CONNECTIVITY

Connector	—
Wire Gauge	14 AWG or thinner

## PHYSICAL

Dimensions	846 × 348 × 333 mm
Weight	29 kg
Housing	Birch Wood
Grille	—
Paintable Grille	—

## ENVIRONMENTAL

IP Rating	—
Mounting	—

## COLOUR & FINISH

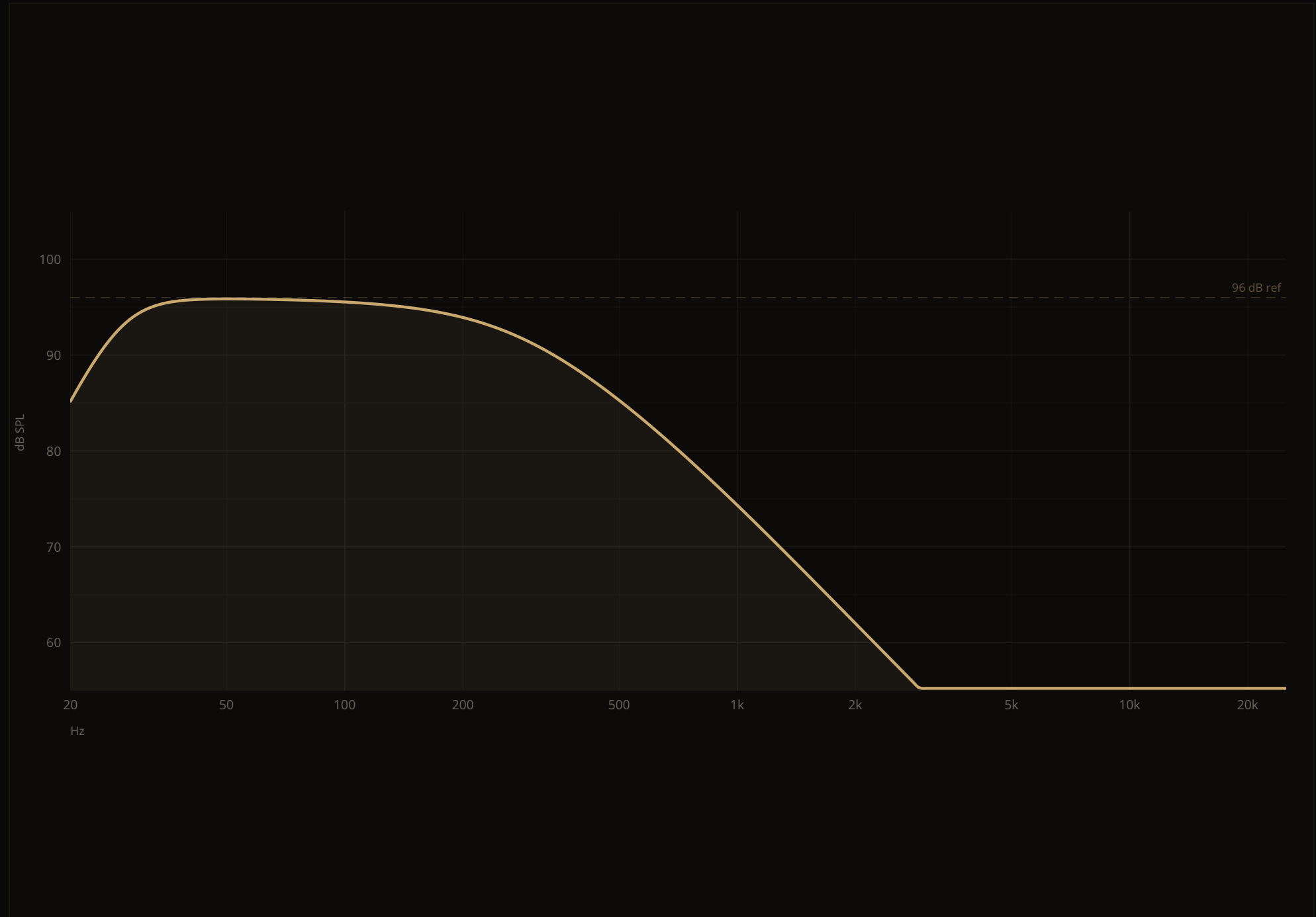
Finishes	Black
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## PRODUCT

Series	Banyan Set
SKU	XSW-BAN-PITH
Variants	XSW-BAN-PITH/SW · Custom RAL +20%
Since	2022

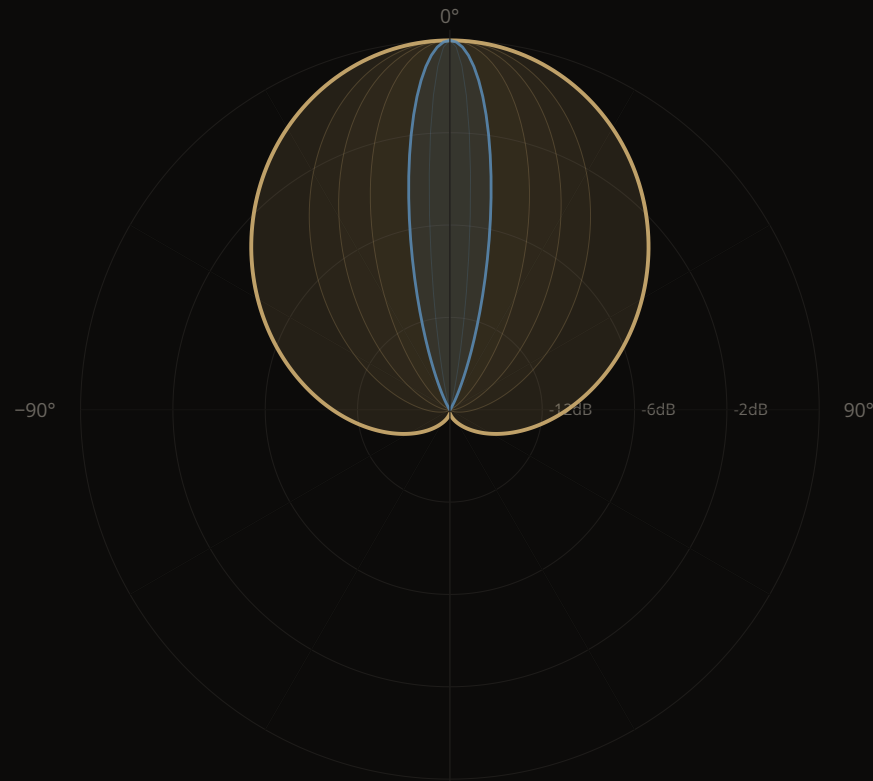
# Frequency Response

On-axis · 1W / 1m · anechoic · 27Hz - 0kHz -6dB · 96dB sensitivity · raw acoustic, no EQ



# Directivity Pattern

Normalised polar response · H null° / V null° at -6 dB · 1 kHz · multi-frequency overlay

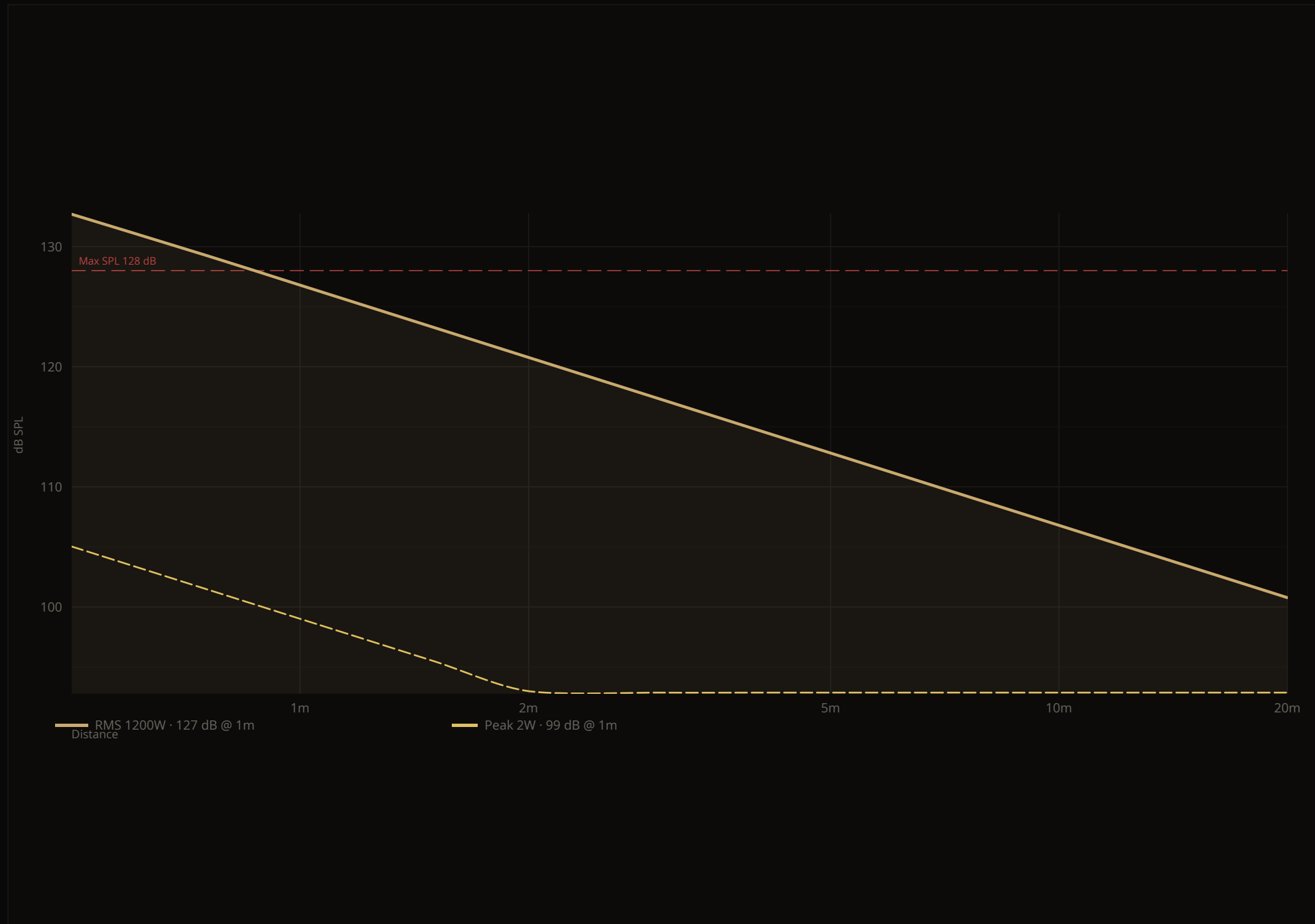


— H 140° (-6dB, 1 kHz)

— V 25° (-6dB, 1 kHz)

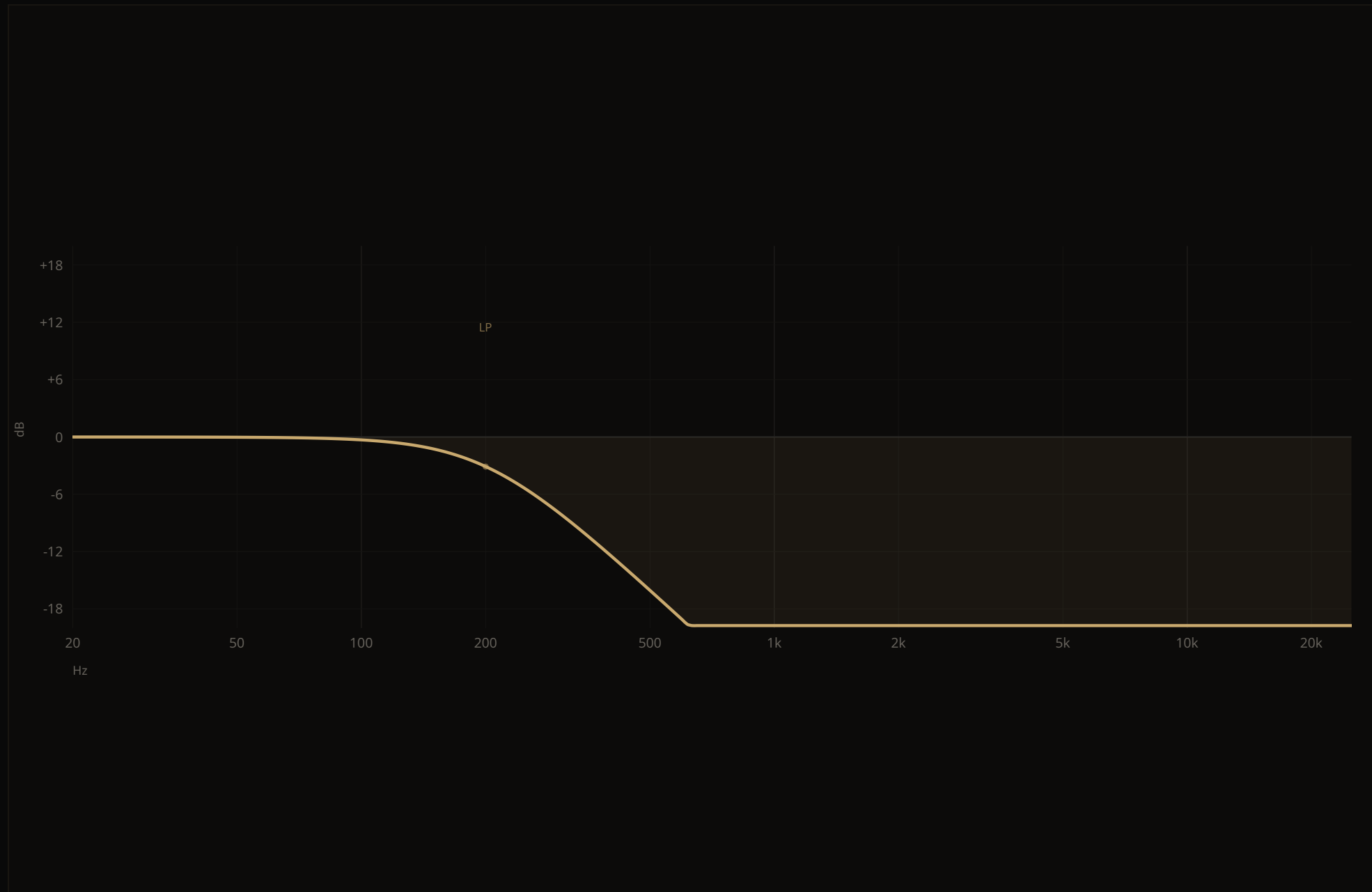
# SPL vs Distance

Inverse square law · Ref: 96 dB / 1W / 1m · free field anechoic · 1200W RMS / nullW Peak



# Recommended EQ

Profile: Default · combined biquad cascade (bold) with individual filter contributions (dashed)



#	TYPE	FREQUENCY	GAIN	Q
1	LP	200 Hz	-	0.7

Profile: Default · RBJ biquad cascade · fs = 48 kHz (ADAU1701 DSP)

# Proprietary Technologies



## **PrecisionXover Array**

Air-core inductors, polypropylene film capacitors and metal-film resistors. Component matching held to  $\pm 0.5$  dB for inaudible channel-to-channel variation across the array.



## **PowerDense Dynamics**

Copper-silver composite voice coil conductor. Significantly higher continuous power in the same former diameter — higher thermal ceiling without increasing coil mass or inductance.