

# XJ-700R

LFE Mono Block Class J Amplifier



**CLASS J**

**Patented Class J  
Technology**



**VE-TAT  
accelerated amplifier**



**MARS  
protected amplifier**

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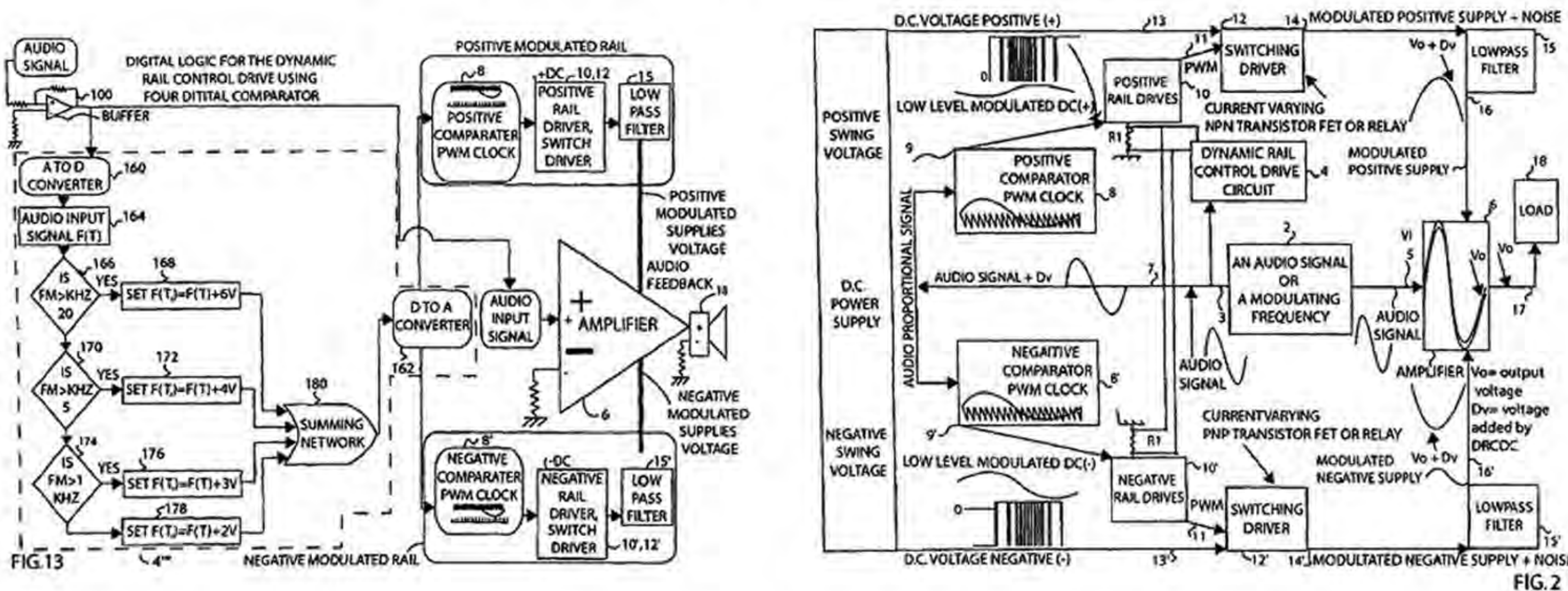
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## XJ-700R - Powerful & Easy To Use

The XJ-700R is a high power mono block subwoofer amplifier ideal for powering large subwoofers or tactile transducers. Featuring advanced Class J output technology, VE-TAT acceleration and MARS protection - all in a cool running fan free 1U package. Sporting 700/400 WRMS into 4/8 ohm, the XJ-700R is ready to power your low frequency needs.

The XJ-700R has optimized presets for movie/ music listening, a digital volume readout with rotary dial and remote control. Features include : variable low pass filter, phase inversion and precalculated boundary EQ.

# CLASS J



**CLASS J** - The patented Class J output stage ensures stellar audio quality and takes the concept of the “intelligent circuit” a step further by actually adapting the electrical operation of the output stage to the signal it is playing. This can rightly be considered a quantum leap in amplifier technology.

The revolutionary aspect of Class J is its ability to combine ultra high efficiency of 99% with extraordinary bass control. Class J is an evolution on PWM (Class D) technology that combines advanced multi-level digital feedback with an intelligent controller. It modulates the supply voltage and output switching frequency in real time based on the frequency and amplitude content of the input signal. This added level of intelligence offers several advantages such as increased thermal headroom, dramatically improved bass response and dynamic power capabilities.



**MARS** (Magnetically Actuated Reanimation System) is a new type of protection system that enables the use of all amplifier power resources without compromising the survivability of the amplifier under catastrophic conditions. Typical protection systems rely on fuses or relays that complicate the signal path thus degrading audio quality. MARS is different as it is not in the signal path, but works by sensing the electromagnetic field of the conducting wires. The internal communication of MARS transmits in the optical plane with a speed more than 1500 times that of the fastest signal passed through the amplifier.

MARS does not use any relays or other damping-factor reducing mechanical switches that can wear out or fail over time. Instead, a specially designed circuit instantly shuts off the output drive. In the event a short-circuit activates the MARS protection system, it continuously re-scans the output every 10 seconds. Normal operation automatically resumes as soon as the short-circuit condition is removed.

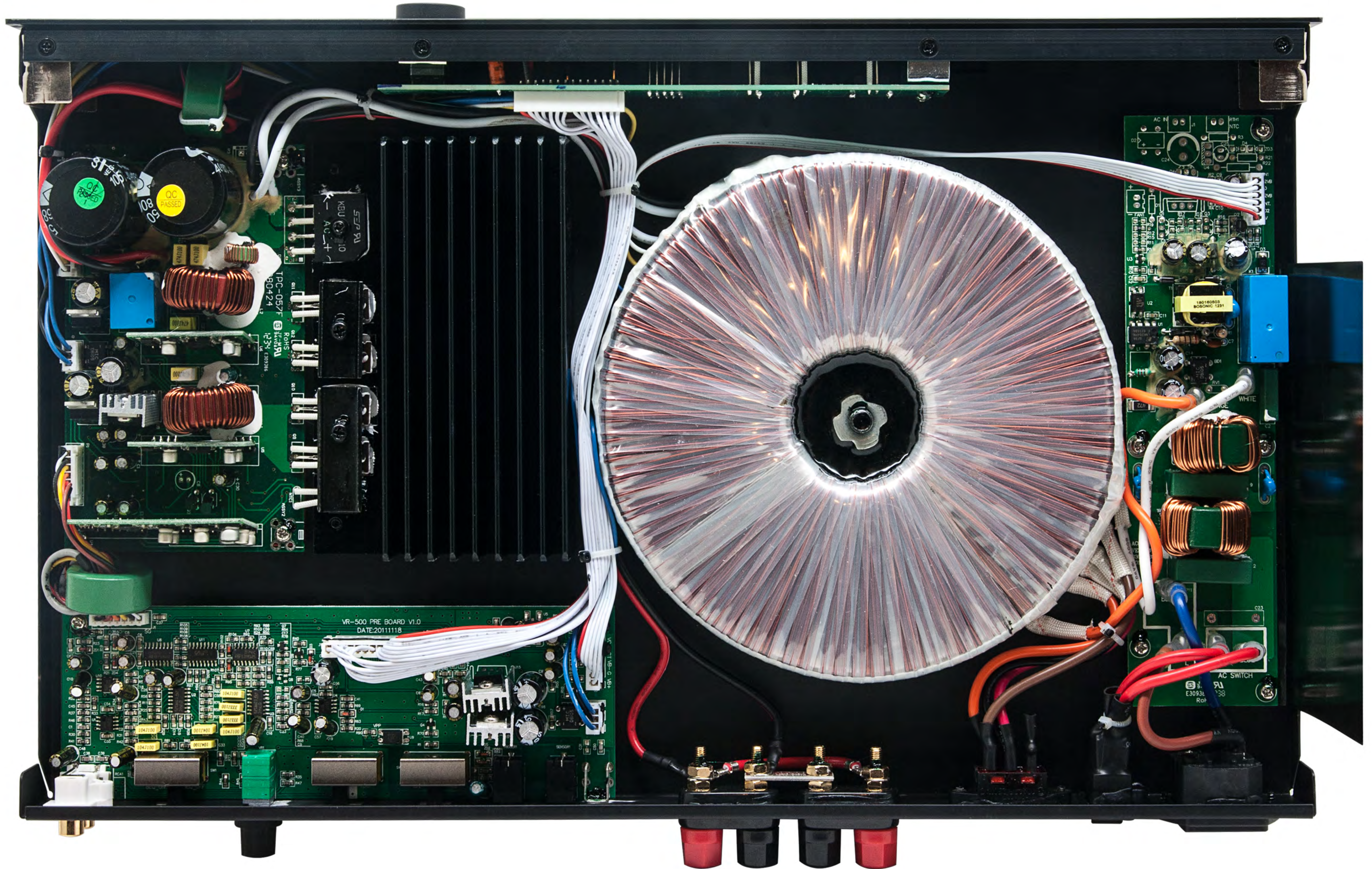


**VE-TAT** (Velocity Enhancing Transistor Augmentative Technology) is an enhanced transistor dead-time controller. Where Class J is an intelligence infused output topology, VE-TAT works at the component level. A critical area for efficiency in a PWM (switching output) amplifier is the speed and precision by which the transistors can be opened and closed. VE-TAT dramatically increases transistor velocity thus eliminating dead-time losses and increasing efficiency.

## OVERBUILD POWER SUPPLY

The patented technologies combined with a dramatically oversized power supply make the XJ700R amplifier capable of delivering raw quantities of continuous power. The power supply is based on a rigid silicon-steel, hard-wound pancake low regulation 1200VA toroidal transformer.

The large and heavy transformer ensures a stable supply without voltage drop even at severe and continuous operation.



# XJ-700R

## LFE MONO BLOCK CLASS J AMPLIFIER

### SPECIFICATIONS:

Sold and priced per piece.

- Model: XJ-700R

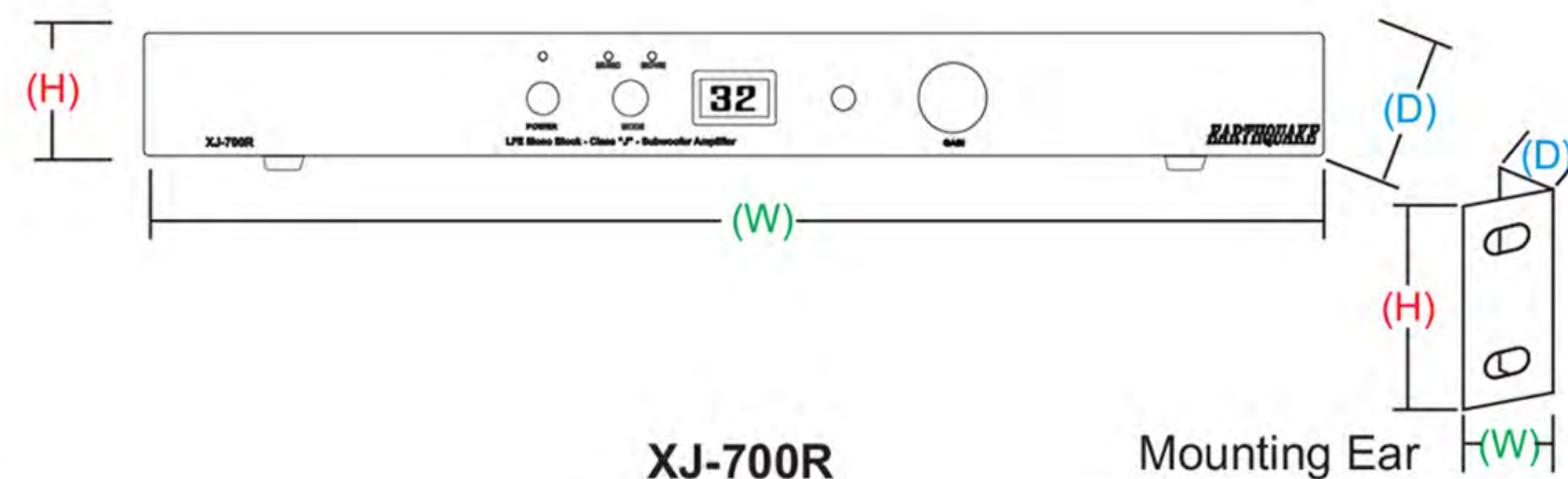
### Features:

- RCA inputs
- Remote Control
- Boundary equalizer
- Variable 24db low pass crossover 40-160HZ
- Auto-ON by signal sense function.
- Finish Black
- Auxiliary IR control via 1/8" Mono mini-jack. Allows the amplifier to be remote controlled even if it is placed in a different location.
- Music or Movie preset mode

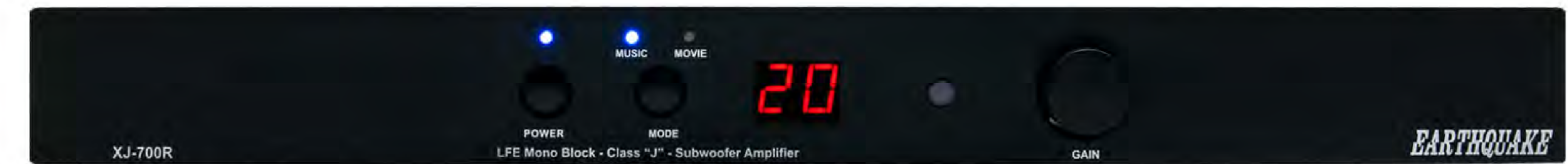
### Power Output:

- 1 X 1000 Watt IHF (4-Ohms Mono)
- 1 X 600 Watt IHF (8-Ohms Mono)
- 1 X 700 WRMS (4-Ohms Mono)
- 1 X 400 WRMS (8-Ohms Mono)
- Frequency Response 18Hz-160Hz
- Total Harmonic Distortion <0.02%

### Dimensions:



	XJ-700R	Mounting Ear
(H) Height w/out feet	1-3/4" (44mm)	1-7/8" (46mm)
(W) Width	17" (432mm)	1" (25mm)
(D) Depth w/ knobs	10-1/2" (267mm)	7/8" (22mm)



### Hooking Up

The new XJ-700R is ideal for powering Dual Quake-10B tactile transducers.

