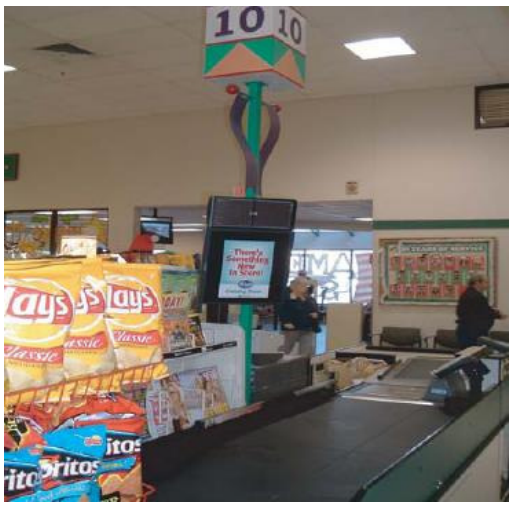
# HSS



**The HyperSonic Sound® technology gives you the ability to direct sound exactly where you want it.**

With the combination of an ultrasonic powered emitter and a proprietary signal processor/amplifier, HSS speakers focus sound into a tight beam for optimal sound directionality and intelligibility. Similar to a beam of light, HSS products use ultrasonic energy to "shine" your sound on a very specific area. Using any media player with line-level output, HSS products convert music or voice into an ultrasonic signal prior to amplification. Once emitted, the converted audio forms a sound column in front of the emitter, which remains focused as it encounters a listener located in the narrow column of sound.

## CUT THROUGH THE NOISE WITH THE HSS® H450

Now your target audience can hear exactly what you want, exactly where you want them to.
Designed to target a specific area, HyperSonic Sound® technology (HSS) uses a tightly focused directional beam of sound that is heard only by those in the selected area.
The high-precision targeting of the H450 significantly minimizes the levels of noise pollution in both open and confined spaces and anywhere else ambient noise is an issue.
The H450 also ensures that your intended audience receives the messages conveyed through the system clearly and intelligibly.
Whether at a point of sale in a retail environment or point of interest in a museum or lobby, the H450 offers display-point audio that is so focused that only the intended listener will hear the audio emanating from the system. The system transforms these areas into consistent virtual listening areas without the discomfort and variability of sound intensity from conventional loudspeakers.

**The HSS Advantage:**

- Ultimate control of audio placement
- Significantly minimizes noise pollution
- Isolates sound to a specific region or person
- Move sound around a room in real time
- Deliver sound to areas which are either physically impossible to access or too costly to install conventional loudspeakers
- Ease of installation (built-in amplifier, small and lightweight)
- Proven technology solution (largest retail installation base)

**This ability to direct or focus sound into a tight beam has a wealth of applications.**

- Museums, aquariums, zoos, monuments and other self-guided or tour-led facilities can enhance the visitor experience through targeted communication about artistic displays, historical documents, artifacts, animal and marine life, without the need for headphones.
- In high ambient noise environments such as airports, rail lines, busses, commuter train stations, or port terminals, HSS can intelligibly target traveling information and local area tourist information to a specific area.
- Retailers of all types can provide targeted, unobtrusive advertising directly at the point of purchase.

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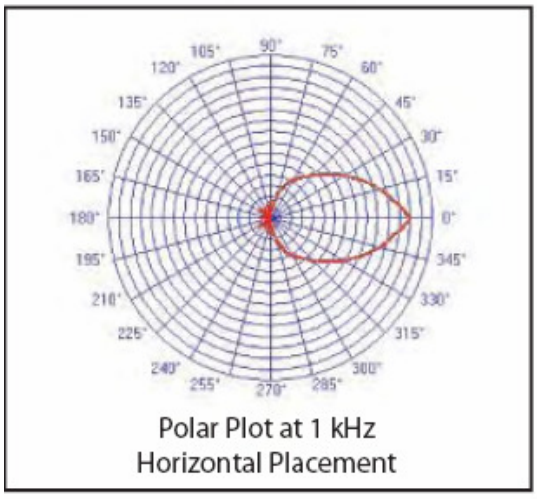
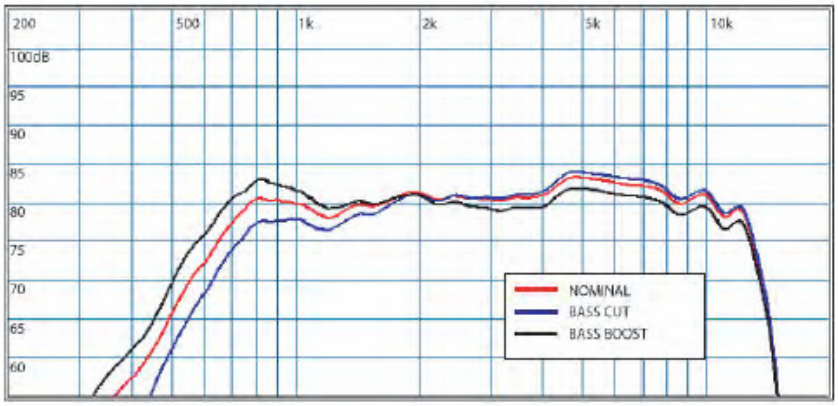
# HSS

| | |
|---|---|
| **ELECTRICAL** | |
| AC Power Cord Length | 1,83 Meters (6ft) |
| **POWER REQUIREMENTS** | |
| Wattage | 100 watts maximum |
| **ELECTRICAL RATINGS** | |
| Universal Power Supply | |
| Input | 100V - 240V ~ 50/60 Hz |
| Output | 48V DC @ 2.08 Amps |
| **MECHANICAL** | |
| Physical Dimensions | Depth (Front to Back); Height (Top-Bottom); Width (Left-Right) |
| H450 | 88,1mm (3,47") x 151,4mm (5,96") x 311,1mm (12,25") |
| **UNIT WEIGHT** | |
| H450 | 1.5 kg (3.3 lbs) |
| **UNIT COLORS** | |
| BLACK ■ | Catalog No. HSS-H450-B |
| WHITE □ | Catalog No. HSS-H450-W |
| **ENVIRONMENTAL** | |
| Operating Temperature | 0°C to 40°C (32°F to 104°F) |
| Storage Temperature | -20°C to 50°C (-4°F to 122°F) |
| Operating Humidity Range | 0 to 95% (non-condensing) |
| Storage Humidity Range | 0 to 95% (non-condensing) |
| **ULTRASONIC AND DSP PROCESSING** | |
| Carrier Frequency | Variable 40 - 50 kHz |
| Modulation Method | Proprietary Dynamic Carrier |
| **ULTRASONIC EMITTER** | |
| Type: | ATC Proprietary Monolithic Film Transducer |
| **AUDIO** | |
| Impedance | 10k Ohms |
| Input Connectors | 2 RCA style connectors |
| System Configuration | Monaural (2 input channels summed together on the RCA connectors) |
| Max Input for Max Output | 160 mVrms x1 channel or 80 mVrms x2 channels |
| **SYSTEM** | |
| Max Audio SPL output | 85 dB @ 1 kHz/1 Meter |
| **POWER AMPLICATION** | |
| Amplifier Type | Proprietary Modulation Amplifier (MODAMP®) |
| Amplifier Power Output Potential | 80W |



Polar Plot at 1 kHz
Horizontal Placement

H450 Frequency Response

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