**LINEAR ARRAY TRANSDUCER (LAT)**

Tympahy Cylindrical Sub-Woofers

A redesign of the subwoofer that enables big sound without a typically large driver. This revolutionary compact unit is the first audio transducer to enable great bass to the new generation of consumer lifestyle products by delivering a richer sound experience to places never before thought possible. With its new slim shape, no mechanical vibration, and sleek styling, the Tympahy LAT represents a significant breakthrough in transducer technology.

For example, the Tympahy LAT500 packs the power of TWO 10" subwoofers into a thin tube-shaped transducer only 5" wide! A conventional cabinet is still required, however, the LAT allows greater flexibility for unique aesthetically enhanced designs.

**ADD STYLE, REDUCED VIBRATION & SIZE**

**TYMPHANY CHANGING THE SHAPE OF TODAYS AUDIO !**

In a departure from conventional cone transducers that displace air across a single diaphragm, the LAT displaces air using a linear array of multiple smaller diaphragms. The result is a more efficient geometry for a given SPL. So instead of the typical round faced cone driver staring at you, there is a dramatic, modern, unique and individual solution. The balanced drive design is comprised of a series of coupled diaphragms that are driven by opposing end motors. One motor drives half of the diaphragms, while the other motor drives the other half in opposition. This methodology cancels vibration & artifacts. The output sound radiates through multiple flow ports along the side of the modern stylish housing. The transducer still requires a box but can be mounted either horizontally or vertically into much shallower and narrower boxes than conventional drivers, opening new prospects to design and locations. The specifications enable existing design tools to calculate box volume, infinite baffle, ported, transmission-line, etc. Multiple units are scalable. The LAT is a new concept in style and purpose offering new advantages to compact MP3, Flat screen TV, wall mounting and car audio.

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### 5" LAT500-8 SUBWOOFER

**EQUIVALENT TO 2X 10"**

Dual coils are 16Ω each.

So as to be wired together in “Push-Pull” parallel for a single 8Ω connection.

Suit home theatre setups Single amplifier (Mono) (See S200W & S400W 6-92)

Sleek modern tube-shaped

"Equivalent in power to Two 10" Subwoofer speakers"

Push-Pull mechanics removes 90% of the Frame Vibration!

Champaign Silver, black ends

Heavy duty 1.5" voice coils

6x masts coupled to 6x cones

Power 250Wrms IEC noise test

Claimed 750W Long Term

<table>
<thead>
<tr>
<th>Specification</th>
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</tr>
<tr>
<td>LAT length</td>
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### 2.5" LAT250-4 WOOFER

**COMPACT LAT DRIVER**

Expand your sound horizons For MP3 LCD-TV Computer

Upgrade compact sound New sleek tube-shaped Multiple driver array

"Push-Pull" removes 90% Frame Vibration!

**Equivalent power to Two 6.5" Subwoofers**

Dual voice coils (2x)

Each being 8 ohms nom.

Wire in parallel for 4Ω Or connect each 8Ω to a Stereo amplifier output

Compact LAT solution for where space is a premium

Black. Requires cabinet

**250x35mmØ**

LAT diameter 34mmØ

LAT length 240mm

Specifications are for both voice coils

**Wired in Parallel:**

- Zn: 4Ω
- Re: 3.3Ω
- Fs: 128Hz
- VC: 38mm
- Sd: 196cm²
- Qms: 3.4
- Qes: 1.2
- Qts: 0.90
- Vas: 8.2L
- SPL: 97.5dB

**Code:** LAT250-4

**Cost:** POA

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### 5" LAT500-4 SUBWOOFER

**EQUIVALENT TO 2X 10"**

Dual voice coils are 8Ω each.

Wire each individually to a Stereo amplifier connection for Satellite speakers, etc. Or wired together as 4Ω for Car audio subwoofer sound

Suit sealed box, ported, in-wall, infinite baffle.

Requires Low-pass crossover

Super modern design style

"Equivalent in power to Two 10" Subwoofer speakers"

Champaign Silver, black ends

Heavy duty 1.5" voice coils

6x masts coupled to 6x cones

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