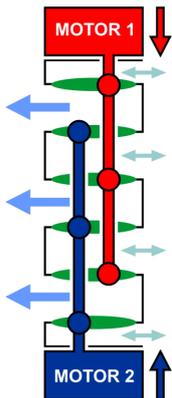




LINEAR ARRAY TRANSDUCER (LAT)

Tymphany Cylindrical Sub-Woofer

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 Tymphany LAT represents a significant breakthrough in transducer technology. For example, the Tymphany 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

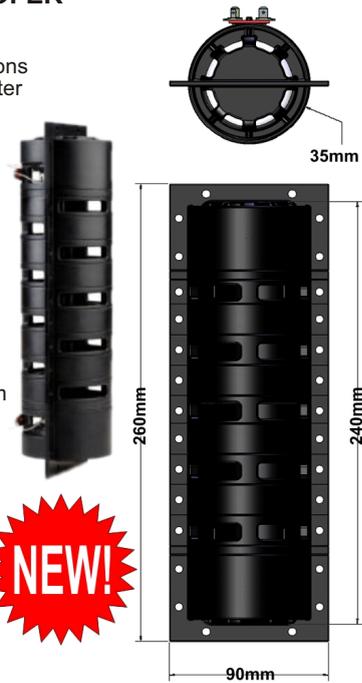
TYMPHANY CHANGING THE SHAPE OF TODAY'S AUDIO !

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 given 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.

2.5" LAT250-4 WOOFER

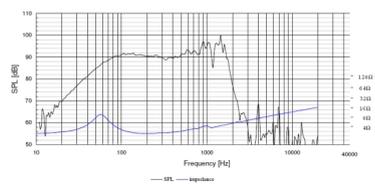
COMPACT LAT DRIVER

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 64Hz
VC 38mm
Sd 196cm²
Qms 3.4
Qes 1.2
Qts 0.89
Vas 8.2L
SPL 87.5dB
Code LAT250-4
Cost POA



5" LAT500-8 SUBWOOFER

EQUIVALENT TO 2X 10"

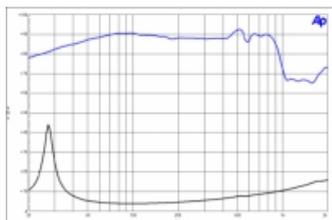
Dual coils are 16Ω each
So as to be wired together in "Push-Pull" parallel for a single 8Ω connection
Suit home theatre setups
Single amplifier (Mono)
(See S200W & S400W 6-92)
Sleek modern tube-shaped "Equivalent in power to Two 10" Subwoofer speakers"
Push-Pull mechanics removes 90% of the Frame Vibration!
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



380x150mmØ

Specifications are for both voice coils
Wired in Parallel:

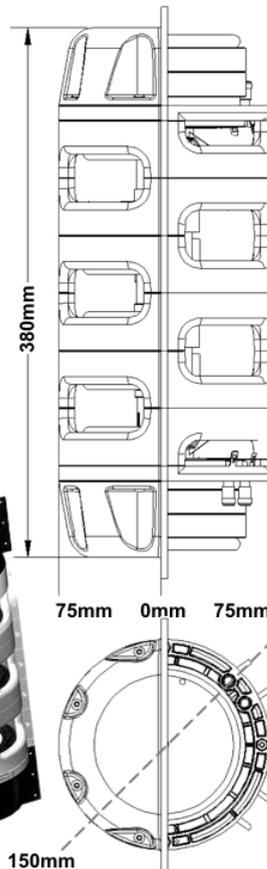
Zn 8Ω (//16Ω x2)
Zo 140Ω
Re 8.1Ω
Le 4.0mH
Fs 28Hz
VC 38mm
Sd 525cm²
Qms 9
Qes 0.4
Qts 0.40
Vas 81L
SPL 89dB
Code LAT500-8
Cost POA



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
Power 250Wrms IEC noise test
Claimed 750W Long Term



380x150mmØ

Specifications are for both voice coils
Wired in Parallel:

Zn 4Ω
Zo 46Ω
Re 3.1Ω
Le 1.5mH
Fs 28Hz
VC 38mm
Sd 525cm²
Qms 9
Qes 0.5
Qts 0.45
Vas 81L
SPL 92dB
Code LAT500-4
Cost POA