

SSOUNDS P6T

Two-way 6.5" install loudspeaker in a moulded ABS cabinet, 80 Hz to 20 kHz, 90° × 60°, on a 70/100 V line or at 8 Ω.

P stands for Point Source.



SSOUNDS P6T

AT A GLANCE

MODEL / SKU	CATEGORY
SS-P6T	Point Source Speakers
BRAND	DRIVE
SSOUNDS	Passive
POWER	CONDITION
80 W	New
APPLICATIONS	
INSTALLCOMMERCIALFILLCOMPACT	

OVERVIEW

The P6T is a moulded-cabinet install point source in the same 6.5" format as our M-6, as the P10T is to the M-10. A 6.5" low-frequency driver and a 1" high-frequency driver sit in an ABS cabinet behind a steel grille with foam, covering 90° by 60° from 80 Hz to 20 kHz with 113 dB maximum SPL. It handles 80 W AES and connects on a spring terminal, running either on a 70/100 V distributed line or at 8 Ω from an amplifier channel, so the same box suits a tapped background music and speech system or a direct feed. We specify it for restaurants, retail, meeting rooms, classrooms and foyers that want a full-range box on the wall.

- 1 × 6.5" LF plus 1 × 1" HF
- 90° × 60° coverage
- 80 Hz to 20 kHz (±3 dB)
- 94 dB sensitivity, 113 dB maximum SPL at 1 m
- 80 W AES, 160 W recommended amplifier
- 70/100 V line or 8 Ω low-Z
- Moulded ABS cabinet, 3.4 kg

SPECIFICATIONS

GENERAL

Type	Passive 2-way install loudspeaker, ABS cabinet
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ACOUSTIC PERFORMANCE

Frequency response ²	80 Hz - 20 kHz (±3 dB)
Coverage ⁴	90° × 60°
Maximum SPL ¹	113 dB @ 1 m
Sensitivity ³	94 dB (1 W @ 1 m)

TRANSDUCERS & COMPONENTS

Low frequency	1 × 6.5" driver, 1" voice coil
High frequency	1 × 1" driver, 1" voice coil

ELECTRICAL

Power handling ⁵	80 W AES
Recommended amplifier power ⁶	160 W into 8 Ω
Nominal impedance ⁷	8 Ω
Operation	70 / 100 V line (tapped) or 8 Ω low-Z

CONNECTORS & I/O

Connectors	2 × spring terminal
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PHYSICAL & CONSTRUCTION

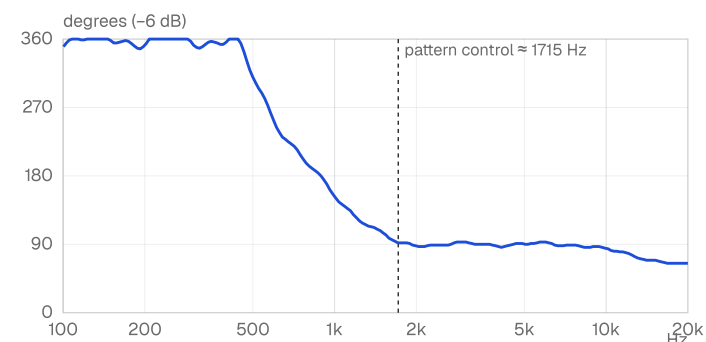
Dimensions (H × W × D) ⁹	300 × 200 × 160 mm
Net weight ⁸	3.4 kg / 7 lb
Enclosure	ABS · steel grille with foam

NOTES

1. Maximum SPL is the peak level at 1 m, driven with pink noise at crest factor 4 to the clipping point of the recommended amplifier, with the SSOUNDS system preset applied. Full-range enclosures are specified under free-field conditions; figures marked half-space are specified over a reflecting plane, the condition subwoofers are deployed in, which adds approximately 6 dB.
2. Frequency response is specified on axis at 1 m in a free field. The tolerance the figure is referenced to is stated alongside it; where no tolerance is given, the figure is the -6 dB bandwidth.
3. Sensitivity is specified at 1 W into the nominal impedance at 1 m on axis, averaged across the pass band of the enclosure.
4. Coverage angles are nominal -6 dB values averaged across the pass band. Per-octave directivity data is available from SSOUNDS system design support for prediction and modelling.
5. Power handling is rated to AES2 using pink noise with a 6 dB crest factor over a two-hour period. Programme power is twice the AES rating; peak power is four times.
6. Recommended amplifier power is the amplifier output SSOUNDS specifies for this enclosure, driven with the SSOUNDS system preset. It guides amplifier selection and is not an AES power-handling rating for the transducers.
7. Nominal impedance is the manufacturer's rating for amplifier load calculation; minimum impedance across the operating band may be lower.
8. Net weight excludes packaging, flight case, accessories and optional rigging hardware.
9. Dimensions are stated in millimetres and exclude protruding rigging hardware, handles and connector panels unless noted.
10. All figures are typical values for production units specified under the conditions above. Individual units may vary within published tolerances.

RESPONSE

HORIZONTAL BEAMWIDTH



-6 dB horizontal beamwidth: 90° nominal

Plot conditions. Curves are generated by the SSOUNDS engineering toolchain from this product's specification. Frequency response is shown 1/24-octave smoothed, normalised to the midband reference, with the passband corners at the stated tolerance; response varies within ± 1 dB across the passband with a subtle shelf in the top octave. Magnitude slopes are 24 dB/octave beyond the passband corners. The beamwidth curve shows the -6 dB included angle: nominal coverage holds down to the pattern-control limit set by the cabinet width ($f \approx c/w$) and widens below it.

Directivity (isobars / balloon). Measured directivity data (isobars, balloon and GLL/CLF for EASE) is in preparation. We publish measured polars only. Contact us for the current measurement status of this model.

DOWNLOADS & DATA FILES

[SSOUNDS P6T: User Manual](#)

MANUAL

[SSOUNDS M-6i: Technical Data Sheet](#)

DATASHEET

Loudspeaker data files for prediction software (GLL / CLF for EASE), 2D and 3D drawings and certification documents are issued on request. Contact support@s-soundspro.com and we will send the current release for this model.

ARCHITECTURAL & ENGINEERING SPECIFICATION

The processor shall be of the SSOUNDS P6T type, configured as a passive 2-way install loudspeaker, ABS cabinet. The processor shall incorporate a low-frequency section of 1 × 6.5" driver, 1" voice coil, a high-frequency section of 1 × 1" driver, 1" voice coil. The processor shall be capable of meeting the following performance criteria: a frequency response of 80 Hz – 20 kHz (±3 dB); a maximum sound pressure level of 113 dB @ 1 m; a sensitivity of 94 dB (1 W @ 1 m); nominal coverage of 90° × 60°. Electrically the processor shall provide a power handling of 80 W AES, a nominal impedance of 8 Ω. Connection shall be by 2 × spring terminal. The processor shall be constructed of ABS, steel grille with foam, measuring 300 × 200 × 160 mm, and shall weigh 3.4 kg / 7 lb. The processor shall be covered by the manufacturer's two (2) year limited warranty and shall be supplied by SSOUNDS or an SSOUNDS-authorized distributor. No alternate shall be accepted without prior written approval of the consultant or specifying engineer.

SAFETY & COMPLIANCE

Read this section before specifying, installing or operating this product. It summarises the safety requirements set out in full in the product documentation supplied with the unit; where the two differ, the product documentation takes precedence.

SUSPENSION & RIGGING

Overhead suspension is potentially hazardous and must be carried out only by trained and competent personnel using SSOUNDS-approved hardware, within the working load limits and array configurations published in the relevant SSOUNDS rigging documentation. Never exceed the stated number of enclosures per array or the stated splay limits. Inspect all rigging components, pins and retaining clips before every deployment and withdraw from service any component that is deformed, corroded or of unknown history. Secondary safety attachment is required where local regulation calls for it. SSOUNDS accepts no liability for systems suspended using non-approved hardware or outside published limits.

SOUND PRESSURE LEVEL & HEARING

This equipment is capable of producing sound pressure levels that cause permanent hearing damage. Do not operate at high level in close proximity, and ensure that operators, performers and audience exposure complies with applicable occupational noise-exposure regulation. Provide hearing protection where exposure limits may be exceeded.

ENVIRONMENT & MECHANICAL

Unless a published IP rating states otherwise, this product is intended for indoor use or for outdoor use under cover, and must be protected from rain, standing water and prolonged direct sun. Ensure ventilation openings are unobstructed. Stack, pole-mount and transport only as described in the product documentation, and secure the product against toppling wherever the public has access.

DISPOSAL

At end of life, dispose of the product and any packaging in accordance with local regulation for electrical and electronic equipment. Do not dispose of electronic components in general waste.

LIMITED WARRANTY: TWO (2) YEARS

SSOUNDS products are warranted against defects in materials and workmanship for a period of two (2) years from the original date of purchase by the end user. Within that period SSOUNDS will, at its option, repair or replace the defective item with no charge for parts or labour. The item must be adequately packaged and dispatched, carriage pre-paid, to SSOUNDS or an SSOUNDS-authorised service centre, accompanied by proof of purchase and a returns reference issued in advance by SSOUNDS. Unauthorised repair, modification or removal of serial-number labelling voids this warranty.

THIS WARRANTY DOES NOT COVER

- Cosmetic wear, finish, grille cloth, paintwork and consumable parts.
- Damage caused by misuse, abuse, accident, neglect, or operation outside the published ratings on this sheet.
- Damage caused by transport or handling after delivery, or by inadequate packaging on return.
- Damage caused by mains or generator supply faults (over-voltage, under-voltage, phase imbalance, surge or incorrect earthing) or by lightning.
- Water, dust or corrosion ingress on products not carrying a published IP rating for the conditions of use.
- Damage resulting from amplification or processing outside the recommended configuration on this sheet, or from third-party presets.
- Products not purchased from SSOUNDS or an SSOUNDS-authorised distributor.

This warranty is in addition to, and does not affect, any statutory rights the purchaser may have under applicable consumer law. It is the sole warranty offered; no other warranty, express or implied, is given.

Warranty claims and returns references: support@s-soundspro.com · +44 20 3769 6537

LEGAL NOTICE

All information on this data sheet is subject to change without notice. SSOUNDS reserves the right to alter specification, design and construction in the course of continuous product development.

Specifications, drawings and images are provided for guidance in system design and tender documentation. Where a figure is critical to a design, confirm it in writing with SSOUNDS before committing to a specification.

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