Reflex Horn Loudspeakers

Models SPT5A and SP58A

Description

The Bogen SPT5A and SP58A are compact, reflex horn-type loudspeakers, designed for one-way or two-way sound and communications systems. Their wide frequency response assures full-range background music reproduction, making these loudspeakers an excellent choice for multi-purpose applications, indoor or outdoor, for use in industrial plants, warehouses, schools, construction sites, transportation terminals, and recreational areas.

The SPT5A has a built-in, variable impedance selector switch for matching the speaker power requirements to a 25V or 70V constant-voltage line. The SP58A has an 8-ohm impedance.

The loudspeakers measure 6" in diameter and 4" deep. Connections are made through a 12" connecting cable.

Features

- High intelligibility and efficiency
- Passive loudspeaker
- Ideal for both one-way and two-way applications
- 7.5 watts
- 25/70V or 8-ohm operation
- Variable-tap impedance selector on SPT5A
- All-purpose mounting bracket for precise positioning, both vertically and horizontally
- Weatherproof, all-metal construction
- Textured mocha enamel finish

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Part No. 54-7760-03R2 Printed in USA 0109

Technical Specifications

Power Rating (RMS):	7.5 watts continuous
Frequency Response:	250Hz to 14kHz
Impedance:	
SPT5A —	25/70V
SP58A —	8 ohms
Sound Pressure Level:	105dB @ four feet on axis with 7.5 watt input @ 1000Hz
Dispersion:	120°
Sensitivity as Microphone:	-22dBm [Ref: 10 dynes/cm2]
Dimensions:	6" Dia. x 4" D
Weight:	
SPT5A —	2 lbs.
SP58A —	1.25 lbs.
Finish:	Textured mocha enamel
Impedance Selector Switch Settings:	25V @ 1, 0.62, 0.31 watts
(SPT5A)	70V @ 7.5, 5, 2.5, 1.25, 0.65 watts

Sound Pressure Level in dB @ 1000Hz:

Watts	**Feet on Axis**				
Input:	**4**	**8**	**16**	**32**	**64**
7.5 —	105	99	93	87	81
5 —	103	97	91	85	79
2.5 —	100	94	88	82	76
1.25 —	97	91	85	79	73
.65 —	94	88	82	76	70

Architect and Engineer Specifications

The loudspeaker shall be a Bogen Model _____ (specify SPT5A or SP58A), or approved equivalent, reentrant type horn loudspeaker. The frequency response shall be 250Hz to 14kHz. Rated power output shall be 7.5 watts, RMS continuous. Dispersion shall be 120°. Sound pressure level, measured four feet on axis with 7.5-watt input @ 1000Hz, shall be at least 105dB.

Use for SPT5A. The unit shall incorporate a five-position weather-sealed switch, to allow matching the loudspeaker to a 25V or 70V constant-voltage line. Power handling capacity shall be adjustable at 70V to 7.5, 5, 2.5, 1.25, or 0.65 watts, and at 25V to 1, 0.62, or 0.31 watts.

Use for SP58A. The unit shall have an impedance of 8 ohms.

The loudspeakers shall have a weatherproof, all-metal housing. An all-purpose mounting bracket shall provide precise positioning in the vertical and horizontal planes. Bracket and loudspeaker shall be finished in textured mocha enamel. The loudspeakers shall measure 6" Dia. by 4" D. Weight shall be _____ (insert 2 lbs. for SPT5A, 1.25 lbs. for SP58A).

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