

Architectural Acoustics® ISM™ 5Tx Loudspeaker

Enclosure Materials & Finish: Black molded ABS cabinet with matte finish. Cabinet has UL 94 HB flame retardant plastic for safety, with matching perforated powder-coated steel speaker grille. Also available in white.

Mounting provisions: One set of two inserts, one on the top center and one on the bottom center for the supplied speaker bracket. One wall-mount key-hole on the rear near the top.

Dimensions (H x W x D): Cabinet Only: 8.87 in. x 5.88 in. x 5.57 in.
225 mm x 149 mm x 141 mm

With Mounting Bracket (Approx): 10.0 in. x 5.88 in. x 8.0 in.
254 mm x 149 mm x 203 mm

Net Weight: 5.5 Lbs. (2.5 kg)

Architectural & Engineering Specifications

The loudspeaker system shall have an operating range of 65 Hz to 20 kHz. The nominal output level shall be 88 dB when measured at a distance of one meter with an input of one watt when in 8 Ohm Thru mode. The nominal impedance shall be 8 ohms, and the maximum continuous power handling shall be 40 watts, maximum program power of 80 watts and a peak power input of at least 160 watts, with a minimum amplifier headroom of 3 dB, in 8 ohm thru mode. A 70.7 V line transformer with switched taps at 16W, 8W, 4W and 2W shall be incorporated, with provisions for 8 ohm Thru mode as well. A 5" nominal diameter water-resistant woofer with rubber surround shall be used in conjunction with a 1" nominal diameter polymer dome tweeter, and a frequency dividing network shall divide the frequencies between them at 7.4 kHz.

The nominal radiation geometry shall be 110 degrees in the horizontal plane and 110 degrees in the vertical plane. The outside dimensions shall be 8.87 inches high by 5.88 inches wide by 5.57 inches deep. The molded plastic cabinet shall be made from flame-retardant ABS, meeting UL 94 HB requirements. The weight shall be 5.5 pounds. The loudspeaker system shall be a Peavey model ISM™5Tx.

2 YEAR LIMITED WARRANTY

NOTE: For details, refer to the warranty statement. Copies of this statement may be obtained by contacting Peavey Electronics Corporation, P.O. Box 2898, Meridian, Mississippi 39301-2898.

ISM™ 5Tx Installation Loudspeaker



Product Description

The ISM™5Tx is a small format 2-way speaker system that is perfect for any application from foreground music to speech reinforcement. The ISM™5Tx has a hi-fi sound character with good clarity, which is ideal for music systems in bars, taverns, arenas, lounges, arcades or anywhere multi-channel, multi-speaker sound systems are required. This speaker utilizes a specially designed 5" woofer and a 1" poly dome tweeter. The lightweight and rugged injection-molded cabinet is weather-resistant for indoor or outdoor use. A curved black metal perforated grille provides driver protection and a professional appearance.

The compact, lightweight package coupled with its smooth response makes this system ideal for the smaller venues where space is at a premium.

The ISM™5Tx speaker system is rated at 80W program power handling. Spring-loaded terminal input connectors make hook-up extremely simple. Incorporation of a 70.7 volt line transformer with taps at 16W, 8W, 4W and 2W allow easy use with 70.7 volt distributed systems. The tap selector switch also has an 8 ohm input option, so the ISM™5Tx speaker system can be used with a direct connection to a power amp, providing unequalled versatility.

Product Features

- Premium 5" woofer with rubber surround
- 1" polydome dynamic tweeter
- Weather-resistant
- 80 Watts program power handling
- Built-in switched 70 Volt Line transformer w/Taps at 16W, 8W, 4W, 2W
- 8 Ohms nominal position on switch
- Small lightweight molded enclosure
- Flame retardant enclosure, to UL 94 HB
- Molded-in mounting inserts
- Mounting bracket included

Mounting and Installation

CAUTION!

Before attempting to suspend or mount this speaker, consult a certified structural engineer. Speaker can fall from improper suspension, resulting in serious injury and property damage. The ISM™5Tx can be mounted using the supplied mounting bracket. Use only the correct mating hardware and appropriate bracket mounting hardware. All associated rigging is the responsibility of others.

CAUTION!

When using the 70.7V distribution system transformer inputs, it is typically required that an infrasonic filter be used to prevent saturation of the transformer, and possible overloading of the power amplifier. A **minimum** of an 18 dB/octave high-pass filter set to a -3 dB point of 80 Hz or higher should be used to filter the low frequencies. It is recommended that the filter be a 24 dB/octave Linkwitz-Riley type set to 65 Hz (-6 dB point) for maximum reliability and performance.

Specifications

Frequency Range: 65Hz – 20kHz (-10 db, 1 meter on-axis, swept-sine in ½ space environment)

Frequency Response: 92Hz – 18kHz (+/- 4db, 1 meter on-axis, swept-sine in ½ space environment)

Power Handling: 8 Ohm Thru Mode: 40 W continuous, 80 W program, 160 W peak. Transformer taps for 70.7 volt operation: 16W, 8W, 4W and 2W

Sound Pressure Level, 1 Watt, 1 meter in anechoic environment: 88 dB SPL, (2.83V input, 8 ohm thru mode). Transformer Losses, Less than 1 dB when in 70.7V input mode.

Maximum Sound Pressure Level (1 meter, 8 ohm thru mode): 103 dB SPL continuous, 109 dB SPL peak

Nominal Radiation Angle: 110 degrees horizontal by 110 degrees vertical

Transducer Complement: Low Frequency Section: 1x 5" high performance water-resistant woofer with rubber surround. High Frequency Section: 1x1" polydome dynamic tweeter with built-in diffusion cap.

Crossover Frequency (internal passive): 7.4 kHz

Crossover Type & Slope: Internal passive; 12 dB/octave (2nd order), High pass for tweeter, and 6 dB/octave (1st order) Low pass for woofer

Impedance (Z) for 8 ohms Thru connection: Nominal: 8 ohms
Minimum: 6.6 ohms

Input Connections: Spring-loaded push terminals

Transformer Taps (Transformer Input Mode): 70.7V taps: 16W, 8W, 4W, 2W

Caution: When using transformer input, an infra-sonic (high-pass) filter should be used to prevent transformer saturation and overload. This will increase reliability and decrease distortion. We recommend a setting of 80 Hz -3 dB point.