

ISM™ -5t

Non-Powered Enclosure



Commercial Audio



Description

The ISM™ 5t is a small format 2-way speaker system that is perfect for any application from foreground music to speech reinforcement. The ISM 5t 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" polydome 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-5t 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-5t speaker system can be used with a direct connection to a power amp, providing unequaled versatility.

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 with 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



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Frequency Range:	66Hz - 20kHz (-10 dB, 1 meter on- axis, swept-sine in 1/2 space environment)
Frequency Response:	92Hz - 18kHz (+/-4dB, 1 meter on-axis, swept-sine 1/2 space environment)
Power Handling:	8 ohm thru mode: 40 watts continuous, 80 watts program 160 watts 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 70.7 volt 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: 1 x 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.	
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 x 141 mm w/ Mounting Bracket (Approx): 10.0 in x 5.88 in x 8.0 in 254 mm x 149 x 203 mm
Net Weight:	5.5 lbs (2.5 kg)



Architect's & Engineer's Specifications

ISM™-5t Loudspeaker

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-5t.

Features and specifications subject to change without notice.

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