



# 4" HIGH-COMPLIANCE LOUDSPEAKER AVAILABLE WITH TRANSFORMER

FC104  
Series

ONE



**FC104**  
(Shown with transformer. Bracket not supplied unless transformer is ordered.)

## FEATURES

- Industry Standard, 10-Watt, 4" High-Compliance Loudspeaker
- Offers Proven Performance with Wide-Angle Sound Dispersion
- Efficient Wide-Range Frequency Response
- Available in 8Ω, 25V, 70.7V, 70.7/25V and 100V Versions
- Ideal for Public Address and Background Music Installations
- Mounts a Large Selection of Atlas Sound 4" Grilles

## APPLICATIONS

Utilize Atlas Sound 4" high-compliance loudspeaker Model FC104 for voice transmission, music and signal reproduction in commercial, industrial and institutional applications of all kinds, especially those where a high-performance loudspeaker is required and wide dispersion is demanded.

## GENERAL DESCRIPTION

**Model FC104.** This compact, full-range, 4" (127mm) loudspeaker is equipped with a damped, high-compliance cone which provides excellent low frequency reproduction and smooth extended response. Model FC104 also offers a wide dispersion angle which reduces the number of loudspeakers necessary to achieve total coverage in low-level distribution systems. The 10-watt, 8-ohm model (without transformer) offers a frequency response range of 150 Hz to 17 kHz, sensitivity of 94dB (at 1 watt, 1 meter) and a dispersion angle of 135° (-6dB, 2 kHz octave band). The unit contains a 10 oz. (283g) ceramic magnet with a flux density of 10,500 gauss. This U.S.-made loudspeaker is available with six different factory-installed line matching transformers (see chart below) to meet a variety of project requirements. A dual-purpose bracket securely mounts the transformer in a low-profile position and enables torsion spring mounting found on many Atlas Sound baffles. (Bracket not included on base model FC104.) *For additional information on Atlas Sound transformer models, refer to #SL1-1369.*

## SPECIFICATIONS

<b>MODEL</b>	FC104
<b>SPEAKER SIZE</b>	4" (127mm) [5" E.I.A. Standard]
<b>SPEAKER TYPE</b>	High Compliance
<b>POWER RATING</b>	10 Watts Program
<b>FREQ. RESPONSE</b>	150 Hz - 17 kHz
<b>MAGNET, CERAMIC</b>	10 oz. (283g)
<b>RESONANCE</b>	101 Hz
<b>VOICE COIL IMPEDANCE</b>	8 Ohms
<b>VOICE COIL DIAMETER</b>	1" (25mm)
<b>FLUX DENSITY</b>	10,500 Gauss
<b>DEPTH (W/O XFMR)</b>	2 1/4" (57mm)
<b>SENSITIVITY (peak)</b>	94dB (at 1W / 1M)
<b>DISPERSION</b>	135° (-6dB, 2 kHz Octave Band)

## LOUDSPEAKER/TRANSFORMER COMBINATIONS AVAILABLE:

FC104 MODEL	XFMR. MODEL	PRIMARY VOLTAGE	XFMR. FREQUENCY RESPONSE	PRIMARY TAPS (WATTS)	SECONDARY IMPEDANCE	INSERTION LOSS (MAX)	CORE SIZE	POWER RATING
★ FC104-T25	LT-25	25 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16mm)	5 Watts
★ FC104-T42	HT-42	25 V	60 Hz - 12 kHz, ±1.0dB	.5, 1, 2 & 4	8 Ohms	1.0dB	5/8" x 5/8" (16 x 16mm)	4 Watts
★ FC104-T47	HT-47	70.7 V	60 Hz - 12 kHz, ±1.0dB	.5, 1, 2 & 4	8 Ohms	1.0dB	5/8" x 5/8" (16 x 16mm)	4 Watts
★ FC104-T70	LT-70	70.7 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 5	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16 mm)	5 Watts
★ FC104T72	LT-72	70.7/25 V	100 Hz - 10 kHz, ±1.5dB	.5, 1, 2 & 4	8 Ohms	1.5dB	1/2" x 5/8" (13 x 16 mm)	4 Watts
★ FC104T87	HT87	70.7 V	50 Hz - 15 kHz, ±1.5dB	1, 2, 4, & 8	4 & 8 Ohms	.6dB	1" x 3/4" (25 x 19 mm)	8 Watts



General signaling (1480 non-fire) includes all speaker/transformer combinations when used with an Atlas Sound UL listed enclosure and baffle.

Specifications subject to change without notice

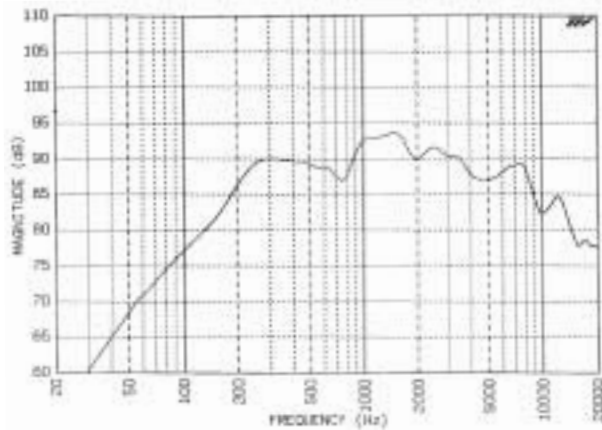


1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A. / TELEPHONE: (800) 876-3333 / FAX (800) 765-3435

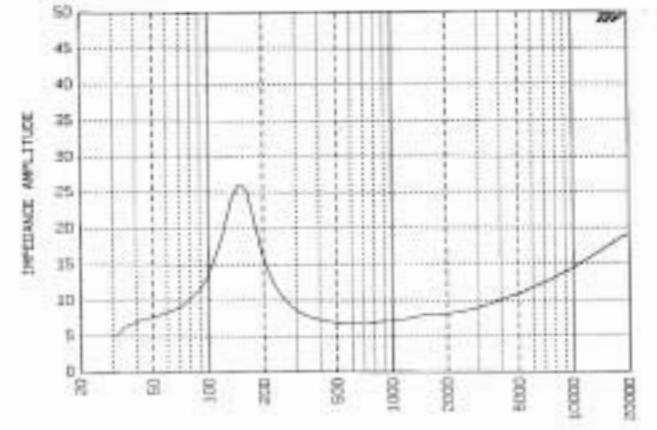
## ARCHITECT & ENGINEER SPECIFICATIONS

Unit shall be Atlas Sound 4" dia. loudspeaker Model FC104 or loudspeaker/transformer combination Model \_\_\_\_ (utilizing Atlas Sound line-matching transformer Model \_\_\_\_). Loudspeaker shall be listed by Underwriters Laboratories (UL1480 General Signaling) to U.S. and Canadian safety standards. The cone shall be the damped, high-compliance type. Base unit (without transformer) shall have a smooth extended frequency response over a range of 150 Hz to 17 kHz and a power rating of not less than 10 watts program. The dispersion angle shall be 135° (-6dB, 2 kHz octave band). The magnet shall be a

10 oz. (283g) ceramic type providing the 1" (25mm) voice coil to operate in a magnetic field of at least 10,500 gauss. Voice coil impedance shall be 8 ohms. Sensitivity shall be 94dB (measured at 1 meter with 1 watt input). Free-air resonance shall be 101 Hz. Transformer primary voltage shall be \_\_\_\_ (25V, 70.7V, 100V) with a frequency response range of \_\_\_\_ and power taps at \_\_\_\_ watts. Insertion loss shall not exceed \_\_\_\_dB. The maximum depth of the loudspeaker shall not exceed 2¼" (57mm). Unit shall be used in conjunction with Atlas Sound baffle Model \_\_\_\_.



**FC104 : Frequency Response**



**FC104: Impedance**



**1 KHZ Octave Band,  
Grid Spacing+6dB  
/Major Division**



**2 KHZ Octave Band,  
Grid Spacing+6dB  
/Major Division**



**4 KHZ Octave Band,  
Grid Spacing+6dB  
/Major Division**



**8 KHZ Octave Band,  
Grid Spacing+6dB  
/Major Division**

*Specifications subject to change without notice*



1601 JACK MCKAY BLVD. / ENNIS, TEXAS 75119 U.S.A. / TELEPHONE: (800) 876-3333 / FAX (800) 765-3435