

Description

The **ASTATIC 201** and **202** microphones are miniature, high performance electret condenser microphones designed for low profile mounting in panels, tables, or ceilings. They are excellent choices for teleconferencing, professional recording, court rooms, and many other critical applications. The **201** and **202** are 1.1" in diameter at the largest point and mount in a 13/16" opening in panels up to 2" thick. The **201** and **202** are extremely rugged and feature a solid machined brass body and **ASTATIC** Flex-Form hardened grille screens. The **201** and **202** also have a built in switchable high pass filter and are terminated with a standard male 3 pin XLR connector. Color matched shock mount isolators are also included with each microphone. (15/16" mounting hole required when using shock isolators.)

The **201** and **202** feature self-contained low noise electronics and operate from standard 9 - 52 volt phantom power.

The cardioid (half cardioid above mounting surface.) pickup of the **201** pattern minimizes annoying feedback when used close to sound reinforcement speakers and monitors, while reducing the pickup of unwanted off axis sounds. The front of the microphone is located by the **ASTATIC** logo in the cut out section of the microphone bezel.

The **202** features an omnidirectional (half hemisphere above mounting surface) pickup which is useful when a directional pattern is not desired. No special orientation is required when mounting the **202**.

The **201** and **202** are available in two colors. Model **201** and **202** are matte black. Model **201W** and **202W** are white.

Installation

All mounting hardware is included with the **201** and **202**. The high pass switch is located on the side of the threaded housing. Since this switch is normally located below the mounting surface, its function should be selected before the microphone is permanently mounted. The switch can be operated with any small bladed screwdriver. Sliding the switch towards the grille screen sets the high pass filter off. (Flat Position) Sliding the switch towards the XLR connector turns the high pass filter on. (Low frequency roll off.) See the diagram on the back of this page. Select the mounting location and if the shock isolators are not going to be used, drill a 13/16" diameter hole. Insert the microphone into the hole and secure with the supplied hex nut and washer.

If the shock isolators are going to be used, drill a 15/16" diameter hole in the mounting location. Slide one of the isolators on the microphone body so that the larger diameter is towards the microphone grille. Mount the microphone in the mounting hole and then place the second isolator on the microphone body so that the smaller diameter fits in the mounting hole. Secure the microphone with the supplied hex nut and washer. This nut only needs to be hand tightened.

ASTATIC Quality

All **201** and **202** microphones are audio tested and inspected prior to shipment. Our absolute commitment to quality insures that **ASTATIC** microphones remain the **Best Value** in today's competitive industry.



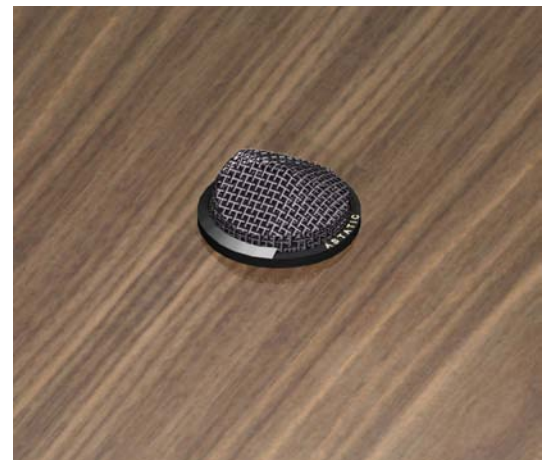
201
Cardioid



202
Omnidirectional



202W Mounted in a Ceiling Tile



201 Mounted in a Conference Table

SPECIFICATIONS FOR 201, 202 SERIES



Specifications

Generating Element:

Electret Condenser (Phantom Powered)

Polar Pattern:

- 201 - Unidirectional (Half Cardioid in the plane above boundary)
- 202 - Omnidirectional (Half Hemisphere in the plane above boundary)

Frequency Response:

40 Hz - 18 kHz @ 30° off axis

Output Level: 201

Open Circuit Voltage:

-55 dB (0 dB = 1 volt per microbar)

Output Level: 202

Open Circuit Voltage:

-52 dB (0 dB = 1 volt per microbar)

Impedance:

Low (250 ohms nominal)

Dynamic Range:

112 dB

Equivalent Noise Level:

Less than 26 dB, A weighted

Maximum SPL:

142 dB (1% THD, open circuit)

Powering:

Supply Voltage:

9 - 52 Vdc, positive pin 2 and 3

Current Required:

Less than 5.0 mA over operating voltage range

Connector

3 pin male XLR type

Phasing

Positive Pressure on Diaphragm generates a positive voltage on pin 2 relative to pin 3.

Finish:

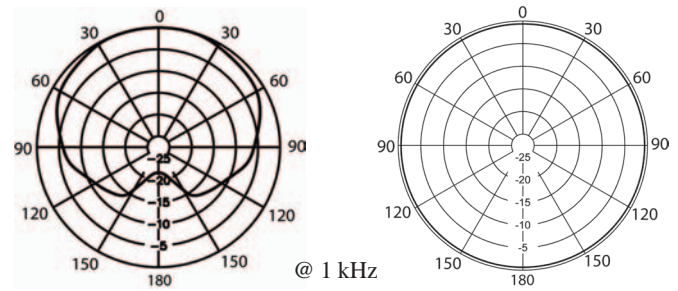
- 201, 202 - Durable Black urethane
- 201W, 202W - Durable White urethane

Dimensions:

(See drawing)

NET Weight:

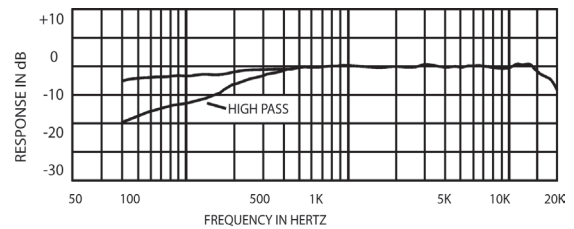
65 grams (2.3 oz.)



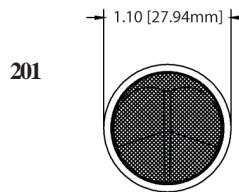
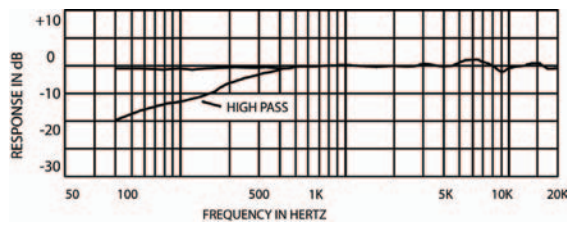
201

202

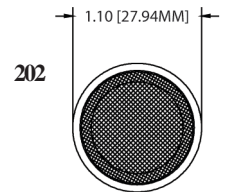
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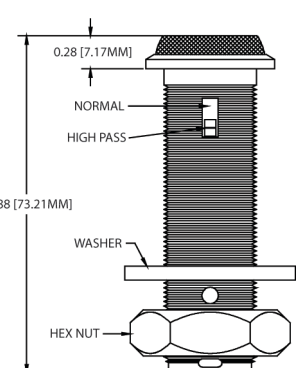
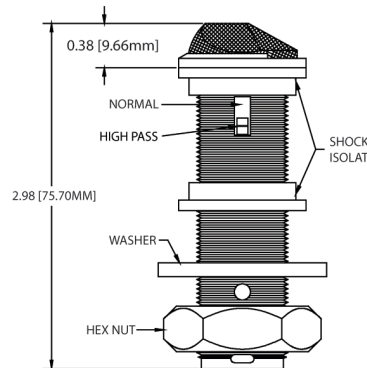
202



201



202



User Techniques and Applications

The **201** and **202** should be used on a large flat surface located preferably in the center positioned with the front (201 Cardioid only.) of the microphone facing the sound source. The slot on the bezel below the grille screen on the **201**, locates the front of the microphone.

The surface can be a part of the structure such as a wall or ceiling, or any flat object such as a table with equally good results. Best results will be obtained from larger smooth surfaces of at least 4'x4' with no obstructions. Smaller surfaces will reduce low frequency sensitivity.

Architects' and Engineers' Specification

The product will be a miniature high performance electret condenser boundary microphone designed for low profile mounting in panels, tables or ceilings. The microphone will come in either a cardioid or omnidirectional version. The microphone will feature a threaded brass body with a standard male 3 pin XLR connector and mount in a 13/16" diameter hole in a panel up to 2" thick. The microphone will feature a switch controlled high pass filter and operate on standard phantom power between 9 and 52 Vdc. The microphone will have an output level of 7.9 mV/Pa for the cardioid version and 11.2 mV/Pa for the omnidirectional version. The microphone will be 1.1" (27.9mm) in diameter at the largest point and 2.98" (75.7mm) tall for the cardioid version and 2.88 (73.21mm) tall for the omnidirectional version. The weight of the microphone will be 2.3 oz. (65 grams.) The microphone will come complete with mounting hardware which includes a washer and threaded nut. The microphone will be available in black, white, or brown urethane painted finishes. The microphone will also come supplied with elastomer vibration isolation bushings which match the color of the microphone. The use of the isolation bushings will require a larger 15/16" mounting hole. One of the following **ASTATIC** model numbers will be specified: **201**, cardioid with black finish. **201W**, cardioid with white finish. **202**, omnidirectional with black finish. **202W**, omnidirectional with white finish.

TWO-YEAR LIMITED WARRANTY

Omnitronics, LLC ("ASTATIC") hereby warrants that this product will be free of defects in material and workmanship for a period of two years from the date of purchase. In the unlikely event a defect occurs ASTATIC will, at its option, either repair or replace with a new unit of equal or greater value. You should retain proof of purchase to validate the purchase date and return it with any warranty claim. Return warranty claims carefully packed, insured and prepaid to the Service Department at the address listed below.

This warranty excludes exterior finish or appearance, damage from abuse, misuse of the product, use contrary to ASTATIC's instructions or unauthorized repair. All implied warranties or merchantability or fitness for a particular purpose are hereby disclaimed and ASTATIC hereby disclaims liability for incidental, special or consequential damages resulting from the use or unavailability of this product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state. Some states do not allow the exclusion or limitation of incidental or consequential damages or limitations on how long an implied warranty lasts, so the above exclusions and limitations may not apply to you.

Note: No other warranty, written or oral is authorized by Omnitronics, LLC.