

## d:dicate™ 4007A Omnidirectional Microphone, 12 mm

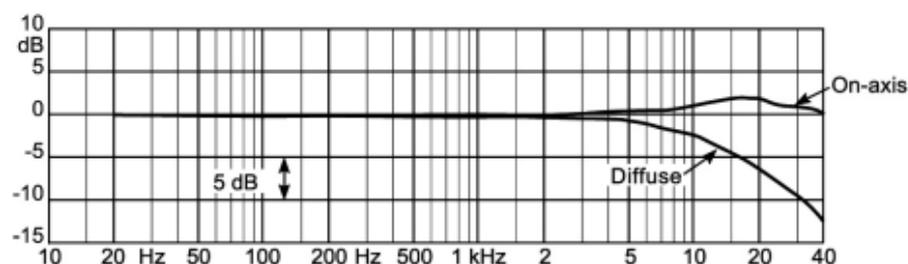
A combination of the MMC4007 microphone capsule and the MMP-A Preamplifier, this mic is part of the modular d:dicate™ Recording Microphones series.

### Performance

Mount the foam windscreen on the mic head whenever used outdoors or in air turbulent situations such as close miking voice in order to prevent wind or pop noise.

With each d:dicate™ Microphone Capsule, comes a unique calibration chart that shows the exact frequency response of the purchased capsule measured with a linear MMP-A Preamplifier.

Typical on-axis and diffuse-field responses of MMC4007:



### Attenuation pad

The MMP-A preamplifier has a 20 dB attenuation push-switch at the XLR connector. Use a pencil or the like to activate the attenuator and lower output by 20 dB



[dpamicrophones.com / 4007A](http://dpamicrophones.com/4007A)

#### Service & repair

If you are not satisfied with the characteristics exhibited by this product, please go to [www.dpamicrophones.com/service](http://www.dpamicrophones.com/service) for instructions.

#### Warranty

The d:dicate™ 4007A Omnidirectional Microphone, 12 mm is covered by a five-year limited warranty.

#### CE marking

This product conforms to all relevant directives approved by the European Commission.

# Specifications

## Directional characteristics

Omnidirectional

## Principle of operation

Pressure

## Cartridge type

Pre-polarized condenser

## Frequency range

10 Hz - 40 kHz

## Frequency range, $\pm 2$ dB

10 Hz - 40 kHz

## Sensitivity, nominal, $\pm 2$ dB at 250 Hz

9 mV/Pa; -41 dB re. 1 V/Pa

## Equivalent noise level, A-weighted

Typ. 24 dB(A) re. 20  $\mu$ Pa (max. 26 dB(A))

## Equivalent noise level, ITU-R BS.468-4

Typ. 36 dB (max. 38 dB)

## S/N ratio (A-weighted), re. 1 kHz at 1 Pa (94 dB SPL)

Typ. 70 dB(A)

## Total Harmonic Distortion (THD)

< 0.5 % up to 142 dB SPL peak

< 1 % up to 148 dB SPL peak

## Dynamic range

Typ. 124 dB

## Max. SPL, peak before clipping

160 dB

## Switchable attenuator, filters etc.

0 dB / -20 dB

## Output impedance

200  $\Omega$

## Minimum load impedance

2 k

## Cable drive capability

100 m (328 ft)

## Output balance principle

Impedance balancing with Active Drive

## Common Mode Rejection Ratio (CMRR)

> 60 dB

## Power supply

48 V Phantom power ( $\pm 4$  V)

## Current consumption

2.8 mA

## Connector

XLR-3M. Pin 1: shield, Pin 2: signal + phase, Pin 3: - phase

## Color

Matte black

## Weight

161 g (5.7 oz)

## Microphone diameter

12 - 19 mm (0.47 - 0.75 in)

## Capsule diameter

12 mm (0.47 in)

## Microphone length

170 mm (6.7 in)

## Maximum output voltage, RMS

7 V

## Polarity

+V at Pin 2 for positive sound pressure

## Temperature range

-40 to 45  $^{\circ}$ C (-40 to 113  $^{\circ}$ F)

## Relative Humidity (RH)

Up to 90%