



LIVE INSTRUMENT MICROPHONES

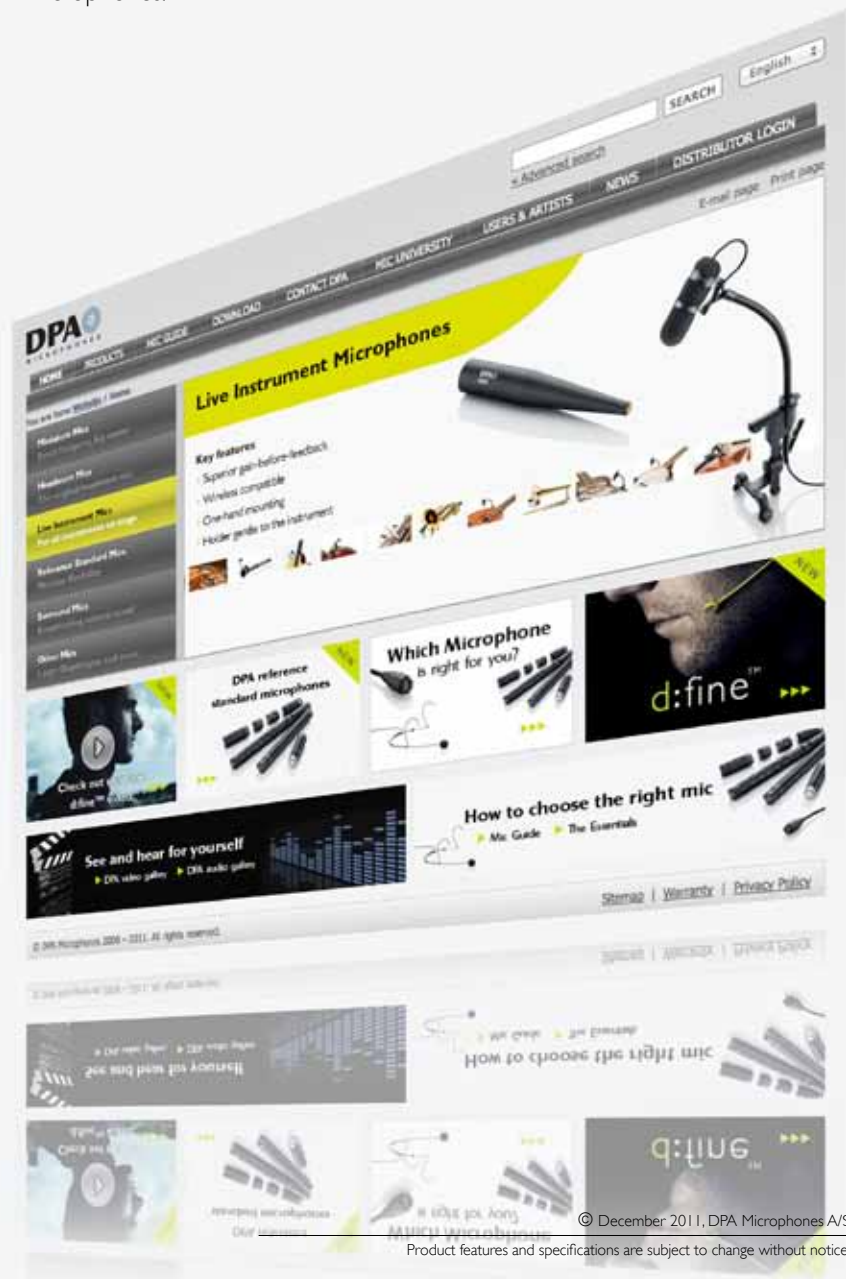
FROM DPA MICROPHONES



Please visit our website and learn more about DPA Microphones.

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Then and now

Since the launch of its first product in 1992, DPA Microphones has firmly established itself as one of the world's preeminent manufacturers of microphones for studio and location recording, broadcast, theater and live sound. Building upon the respected legacy of Brüel & Kjær, DPA's reputation for capturing an extremely natural and open sound – especially noticeable when recording vocals and traditional acoustic instruments – has provided the brand with unprecedented growth over the past two decades.

Universal approach

The same skillful design and “no compromises” approach to manufacturing that are embodied by DPA Microphones have been extended to our line of miniature condenser microphones, ingenious accessories and tailor-made solutions for a wide variety of demanding applications. Form and function are key aspects of our design philosophy and contribute significantly to the continued success of our products.

Stand-mount omni or clip-on supercardioid

DPA's family of live instrument microphones achieve a new standard of performance for miking instruments in both live sound reinforcement and studio applications. Capturing the utmost in natural and uncolored sound, the mics are extremely rugged with a discreet size and elegant lightweight design. Their faithful reproduction of the source sets these mics apart as they provide amazing clarity and lack of coloration.

Professional microphone solutions for any need



Handcrafted in Denmark

DPA 4099 Clip Microphones

Performance breakthrough

Representing years of research and development, the 4099 series achieves a new standard of performance for miking acoustic instruments in live sound reinforcement applications. These new models are extremely rugged with a discreet size and elegant lightweight design.

Supercardioid pattern

The 4099 series of condenser microphones feature supercardioid pickup patterns for superior gain-before-feedback. This also provides excellent focus on the instrument as well as isolation and rejection from adjacent musicians.

Sonic purity

While capturing the utmost in natural and uncolored sound, the 4099 is fully capable of handling the extremely high sound pressure levels that close miking demands. The standard version handles 142 dB of sound pressure level, while the version for high output levels is capable of 152 dB, helping to ensure the finest possible audio reinforcement is achieved when performing live.

Innovative mounting

The innovative mounting system allows the mic to capture the instrument with unprecedented musical accuracy. The system provides stable positioning to prevent unwanted microphone movement. The mic can be easily repositioned or unclipped and moved to another instrument using just one hand. The mounting system is designed with soft materials that will never harm your instrument. The integrated gooseneck/shock mount/windscreen system helps to minimize handling and wind noise. The interchangeable clip design allows the mic to be used with any of the mounts.

Adapter system

The 4099 system includes one XLR connection adapter for 48V phantom powering with a belt clip. The DPA adapter line includes a full range of adapters that make the 4099 fully compatible with virtually any wireless system currently available. See dpamicrophones.com/adapters.



DPA 4099 Key Features

- Maximum gain-before-feedback
- Sonic purity
- Wireless compatibility
- Easy to mount



4099B Clip Microphone for Bass and more

The 4099B microphone and mounting system is meticulously designed and optimized for the bass. This is to ensure the best possible mount and audio reinforcement is achieved when performing live.

The 4099B attaches to the E and G strings below the bridge and allows for microphone capsule placement in the sweet spot between bridge and fretboard. Positioning at the f-hole is also possible.

Fully capable of handling the dynamic range and subtle details of the bass, these microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones.

4099B Key Features

- Full acoustic sound
- Easy non-intrusive mount
- Minimal stage bleed
- Blends well with pick-up





Chris Minh Doky

"The 4099B captures every nuance of my performance, from the smallest detail up. What you play is what you get!"



4099C Clip Microphone for Cello and more

Designed to suspend the 4099 microphone from the strings, below the bridge, of a cello, this mount positions the mic to achieve optimum sound quality on a medium bodied instrument.

The 4099C attaches to the C and A strings below the bridge and allows for microphone capsule placement in the sweet spot between bridge and fretboard, offering a unique combination of natural string sound and high audio separation on stage.

Despite its tiny, discreet size and elegant, lightweight design, 4099C is extremely rugged. The versatile gooseneck provides stable and repeatable positioning. The mic can be easily unclipped and repositioned or moved to another instrument, while the mounting system is designed never to mar or scratch the finish of your instrument nor change the sonic character of it.

4099C Key Features

- Natural sound and high isolation
- Easy to mount
- Flexible positioning
- Gentle to the instrument







4099D Clip Microphone for Drum

4099D is a microphone solution that allows for high quality audio capture of drums and percussion instruments. The low profile and unobtrusive design provides visual elegance along with uncompromised sound quality and accurate dynamics.

The unique and flexible clip-on system provides fast, stable and repeatable positioning. The mic can be easily positioned at different angles via the flexible gooseneck to fit different drums and allow a variety of sound nuances. The 4099D includes a 3-pin XLR phantom power adapter.

The 4099D unveils a revolutionary new “90 degree” system which provides many more mounting options. By detaching the clip from the gooseneck and re-mounting it turned 90 degrees, the number of mic positions is doubled.

4099D can easily be combined in numerous ways and with a wide variety of microphones. For bass drum, the DPA VC4099 clip fits perfectly on the rim and makes a DPA Microphones drum-sound revelation possible at a reasonable price level.

4099D Key Features

- Excellent frequency and phase response
- Capable of handling extremely high SPLs
- Compact, discreet size
- Versatility in mounting options







4099 G Clip Microphone for Guitar, Dobro, and more

Designed for wide body acoustic instruments such as acoustic guitar, dobro, ukulele, and mandola, the 4099 G offers almost unlimited placement possibilities as well as a sonic signature that is considerably more natural than an internal pick-up.

The 4099 G fits instruments with a body depth between 35 mm (1.4 in) and 122 mm (4.8 in).

The versatile gooseneck provides stable and repeatable positioning. The mic can be easily unclipped and repositioned or moved to another instrument with only one hand, while the mounting system is designed never to mar or scratch the finish of your instrument.

4099G Key Features

- Multiple placement possibilities
- High gain-before-feedback
- Truly natural acoustic tone
- Blends well with pick-up





Sting

“With the 4099 series, I finally have studio quality microphones that can be used for my live shows”



4099P Stereo Microphone System for Piano and more

4099P is a piano miking solution that makes it easy to achieve a high level of isolation on stage while providing clean and transparent stereo sound quality with realistic dynamics.

The 4099P is a complete system which includes a pair of sensitivity selected 4099 microphones on goosenecks with magnetic mounts to allow the most realistic capture of a piano. With its low profile and unobtrusive design it is perfect in closed lid scenarios for capturing true acoustic piano sound in a live setting.

The versatile magnet mount/gooseneck system provides stable and repeatable positioning. The mic can easily be positioned at different angles via the flexible gooseneck to provide a variety of sound nuances. The system includes two 3-pin XLR adapters.

The mounts can also be used with various instruments with magnetic surfaces.

4099P Key Features

- High gain-before-feedback
- Flat frequency response
- Compact, discreet size
- Excellent phase characteristics







4099S Clip Microphone for all Saxophones, Bass Clarinet, and more

This mount, designed to clip on the bell of the saxophone family, positions the mic to achieve uncompromised tonal possibilities with a single microphone.

Soprano, alto, tenor or baritone, the 4099S fits them all, providing exceptional gain-before-feedback and a broad spectrum of uncompromised tonal possibilities depending on the microphone placement.

Fully capable of handling any saxophone's dynamic range and fine-grained timbre, these microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones.

The versatile gooseneck provides stable and repeatable positioning. The mics can be easily unclipped and repositioned or moved to another instrument with only one hand, while the mounting system is designed never to mar or scratch the finish of your instrument.

4099S Key Features

- Superior gain-before-feedback
- Wireless compatible
- Easy one-hand mounting
- Holder gentle to the instrument





Wayne Shorter

“DPA Microphones transforms all resistance to true perception into infinite access of value creation”



4099 T Clip Microphone for Brass

An ideal tool for trumpet, trombone and other brass instruments, with or without mute, the 4099 T effortlessly handles even the highest sound pressure levels. Its innovative mounting mechanism makes it easy to move the mic between instruments with only one hand.

The 4099 T microphone and mounting system is meticulously designed and optimized for the brass family. This is to ensure the best possible mount and audio reinforcement is achieved when performing live.

Fully capable of handling the intense sound pressure levels from a trumpet, these microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones.

4099 T Key Features

- Handles extreme sound pressure levels
- Wireless compatible
- Flexible and easy one-hand mounting
- Fits any mute





Randy Brecker

"I am now addicted to the mic;
it actually improves my playing"



4099U Universal Clip Microphone

The 4099U is a microphone system especially designed to address the unique mounting challenges of slim bodied and unusually shaped instruments. It allows for high quality audio capture while the low profile and light weight of the unobtrusive design provides visual elegance along with uncompromised sound quality.

The creative design of the unique microphone clip includes a hook-and-loop fastener strap which allows the holder to fit numerous instruments of varying sizes and diameters such as oboe, clarinet, bassoon, recorder and flute. The hook-and-loop fastener band pulls tight to fit the circumference of the instrument, like a wrist watch on your arm. If using the clip on very large diameter instruments, additional hook-and-loop fastener straps can easily be added to extend the clip's capacity.

The 4099U includes a revolutionary new "90 degree" system which provides many more mounting options. By detaching the clip from the gooseneck and re-mounting it turned 90 degrees, the number of mic positions is doubled.

The UC4099 Universal Clip is available separately, and can be used with any of the various versions of the 4099 family.

4099U Key Features

- Clean and natural sound
- Excellent frequency and phase response
- Compact, discreet size
- Unique mounting system fits numerous instruments







4099V Clip Microphone for Violin, Mandolin, and more

Artists will appreciate how gently the 4099V adheres to a prized instrument while its elegantly lightweight, unobtrusive design keeps it from getting in the way of a passionate performance.

The 4099V microphone and mounting system is meticulously designed and optimized for the string family. It fits other instruments with a body depth between 35 mm (1.4 in) and 55 mm (2.1 in).

Fully capable of handling the violin's dynamic range and subtle details, these microphones live up to their pedigree with sound as accurate as DPA's other world-class microphones.

Despite its tiny, discreet size and elegant, lightweight design, the 4099V is extremely rugged. The versatile gooseneck provides stable and repeatable positioning. The mics can be easily unclipped and repositioned or moved to another instrument with only one hand, while the mounting system is designed never to mar or scratch the finish of your instrument.

4099V Key Features

- Superior gain-before-feedback
- Truly natural acoustic tone
- Flexible and easy one-hand mounting
- Holder gentle to the instrument





Mark Feldman

"I love this mic. The consistency of the sound from acoustic to amplified is amazing!"

DPA 4090 & 4091 Omnidirectional Microphones

Sonic accuracy

While many microphones add a “certain something” to the sound, DPA microphones are world renowned for capturing the performance – and only the performance – with breathtaking sonic accuracy. The 4090 and 4091 exhibit an open natural sound and faithfully capture any input source.

High sound pressure level handling capability

With an impressive 134 dB of sound pressure level handling capability the 4090 is suitable for miking any instrument regardless of output. Also available is the acoustically identical 4091 with an additional 10 dB of sound pressure level handling for extremely loud instruments.

Small size and large versatility

Easy to position and use with conventional mic stands and 3-pin XLR cables, from acoustic guitar to drum overheads, acoustic piano to full symphony, this versatile mic excels.

Sturdy construction

The lightweight aluminum housing stands up well to the rigors of both studio and field use, making it the perfect choice for a wide variety of both live and recording applications.

Wide bandwidth, flat frequency response and perfect omni

Not only appropriate for live and recorded instruments, these mics are suitable for test and measurement applications in systems such as SMART, TEF and SIM.

Cost effective

Offered at an entry level price for DPA world class quality, these are extraordinary microphones at an unprecedented price.



DPA 4090 & 4091 Key Features

- Sonic accuracy
- Rugged construction
- Competitive price
- Reference use

Adapters & Cables

Limitless connectivity

Have a specific wireless transmitter and bodypack that you prefer to use? No problem. Thanks to the versatile MicroDot connector design and more than 30 available adapter accessories, DPA's 4099 clip microphones can be used with practically every popular wireless system on the market, plus on cable. See more on the following pages.

Reduce cable clutter

Reduce cable clutter on stage by using the DAO4099 double cable. The cable carries both the 4099 mic extension cable and a pick-up jack connection in one dual cable run in a nylon sock. The jack uses high quality Mogami cable and gold Neutrik connectors. At the instrument end there is a right-angled connector.



Adapters - Using original DPA adapters, our miniature microphones are currently compatible with the professional transmitters listed below. The model number is typically found on the transmitter. * It is possible to order selected miniature microphone types with fixed connectors, see www.dpamicrophones.com/connectors

Brand / Transmitter	Adapter	Brand / Transmitter	
AKG PT 60	DAD6017*	Samson CT-2	DAD6009
AKG PT 80	DAD6017*	Samson TX-3	DAD6009
AKG PT 81	DAD6017*	Samson UT1L	DAD6017*
AKG PT 400	DAD6017*	Samson UT4	DAD6009
AKG PT 450	DAD6017*	Samson UT5	DAD6009
AKG PT 4000	DAD6017*	Samson UT6	DAD6009
AKG PT 4500	DAD6017*	Samson VT2L	DAD6017*
AKG DPT700	DAD6017*	Sennheiser BF1053-U	DAD6002
Audio Ltd. Tx 2000	DAD6004*	Sennheiser BF1083-U	DAD6002
Audio Ltd. Tx 2020	DAD6004*	Sennheiser Evolution / G2 Series	DAD6034*
Audio Ltd. Tx 2040	DAD6004*	Sennheiser SK 50	DAD6003*
Audio Ltd. MiniTX	DAD6035	Sennheiser SK 250	DAD6003*
Audio-Technica ATW-T51 (1400 ser.)	DAD6022	Sennheiser SK 3063	DAD6003*
Audio-Technica ATW-T75 (7000 ser.)	DAD6028	Sennheiser SK 5012	DAD6003*
Audio-Technica ATW-T101 (U100)	DAD6021	Sennheiser SK 2000	DAD6003*
Audio-Technica ATW-T210	DAD6028	Shure PGX1	DAD6010*
Audio-Technica ATW-T310	DAD6033	Shure SCL	DAD6010*
Audio-Technica ATW-T701	DAD6033	Shure SLX1	DAD6010*
Audio-Technica AEW-T1000	DAD6033	Shure U1	DAD6010*
Audio-Technica ATW-T1000 D	DAD6033	Shure U1L	DAD6011
Beyerdynamic TS42	DAD6006	Shure ULX1	DAD6010*
Beyerdynamic TS85	DAD6006	Shure URI	DAD6010*
Beyerdynamic TS190	DAD6006	Shure UR1M Lemo3	DAD6003*
Beyerdynamic TS500 (Non OPUS)	DAD6026	Shure UT1	DAD6010*
Beyerdynamic TS600 (Non OPUS)	DAD6026	Sony Freedom WRT 805	DAD6019*
Beyerdynamic OPUS 100-200	DAD6027	Sony WRT8	DAD6008*
Beyerdynamic OPUS 300	DAD6032	Sony WRT820	DAD6008*
Beyerdynamic OPUS 500	DAD6032	Sony WRT860	DAD6008*
Beyerdynamic OPUS 600	DAD6032	TELEX	DAD6030
Beyerdynamic OPUS 800	DAD6032	Telex ProStar UHF UB12	DAD6020
Beyerdynamic OPUS 900	DAD6032	TOA WM4300	DAD6010*
Electro-Voice CSB-1000 (RE1/RE2)	DAD6030	Trantec S5.5 (UHF)	DAD6036
Lectrosonics M185	DAD6012*	Trantec S5000 Series	DAD6026
Lectrosonics UHF (low level)	DAD6021*	Trantec SD7000 Digital Wireless	DAD6003*
Line 6 XD-V70L	DAD6010	Vega T-37	DAD6015
Micron TX501.x	DAD6013	Vega T-66	DAD6011
Micron TX502.x	DAD6013	Vega T-677	DAD6011
Micron Explorer Series / TX700	DAD6025	Vega U2020	DAD6015
Mipro ACT-707T	DAD6032	Wisycom MTP30	DAD6003*
Mipro ACT-707TE	DAD6032	Wisycom TMA16	DAD6018
Mipro ACT-707TM	DAD6032	Wisycom TMU20	DAD6018
Mipro ACT-707TS	DAD6032	X2 Digital Wireless Systems	DAD6034
Mipro ACT-MT103	DAD6032	XLR adapter with belt clip	DAD6001-BC
Mipro ACT-MT303	DAD6032	XLR adapter with midrange attenuator	DAD6024
Mipro ACT-MT801	DAD6032	XLR adapter with belt clip and low cut	DAD4099
Mipro ACT-MT808	DAD6032		
Pastega TMA16	DAD6018		
Pastega TMU20	DAD6018		

BC4099



Clip for Bass and more
(included with 4099B)

CC4099



Clip for Cello and more
(included with 4099C)

DC4099



Clip for Drum
(included with 4099D)

GC4099



Clip for Guitar; Dobro, and more
(included with 4099G)

PC4099



Magnet holder for Piano and more
(included with 4099P)

STC4099



Clip for Sax, Trumpet, and more
(included with 4099S and 4099T)

UC4099



Universal Clip
(included with 4099U)

VC4099



Clip for Violin, Mandolin, and more
(included with 4099V)

DAD4099



MicroDot to 3-pin XLR (P48) w/ Belt Clip and Low-Cut
(included with 4099D/G/P/S/T/V)

DAD6001-BC



MicroDot to 3-pin XLR (P48) w/ Belt Clip
(included with 4099B/C/U)

UA0639



Microphone holder
(included with 4090/4091)

DMM0007



Universal Surface Mount

DUA0573



Foam windscreen for 4090/91
(included with 4090/91)

DUA4099



Foam Windscreen for 4099
(included with all 4099 clip mics)

DAO4099

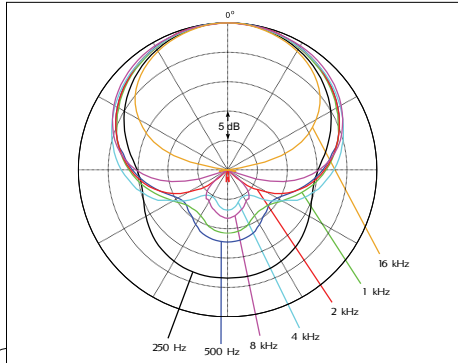


Double Cable, 5 m (16.4 ft)

Accessories

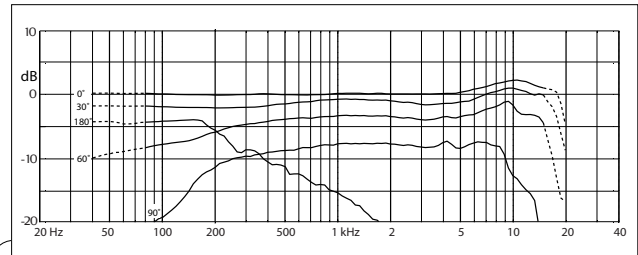
Find more information on
dpamicrophones.com/accessories

Specifications for DPA 4099



Polar Pattern

Directional characteristics of DPA 4099 (normalized)



On-Axis Frequency Response

Measured at 20 cm (7.9 in) distance

Directional characteristics

Supercardioid

Principle of operation

Pressure gradient

Cartridge type

Pre-polarized condenser

Frequency range

20 Hz - 20 kHz

Frequency range, ± 2 dB, 20 cm (7.9 in) distance

80 Hz - 15 kHz with 2 dB soft boost at 10 - 12 kHz

Second order low-cut filter at 80 Hz with DAD4099

Sensitivity, nominal, ± 3 dB at 1 kHz

4099B/4099C/4099G/4099P/4099S/4099U/4099V:

6 mV/Pa; -44 dB re. 1 V/Pa

4099D/4099T: 2 mV/Pa; -54 dB re. 1 V/Pa

Equivalent noise level, A-weighted

4099B/4099C/4099G/4099P/4099S/4099U/4099V:

Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

4099D/4099T: Typ. 28 dB(A) re. 20 μ Pa (max. 31 dB(A))

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

4099B/4099C/4099G/4099P/4099S/4099U/4099V: Typ. 71 dB(A)

4099D/4099T: Typ. 66 dB(A)

Total Harmonic Distortion (THD)

< 1 % up to 123 dB SPL peak

< 1 % up to 120 dB SPL RMS sine

Dynamic range

4099B/4099C/4099G/4099P/4099S/4099U/4099V: Typ. 100 dB

4099D/4099T: Typ. 95 dB

Max. SPL, peak before clipping

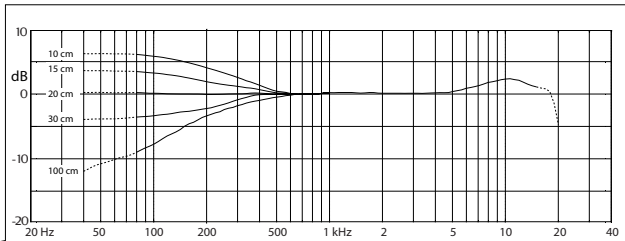
4099B/4099C/4099G/4099P/4099S/4099U/4099V: 142 dB

4099D/4099T: 152 dB

Output impedance

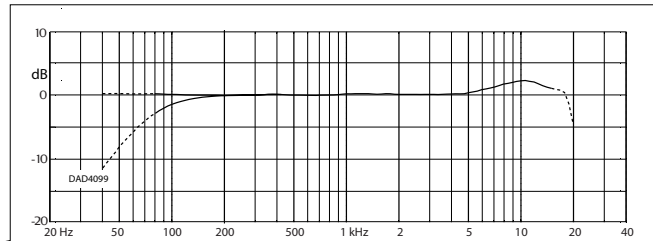
From MicroDot: 30 - 40 ohm

From DAD4099/DAD6001-BC: 100 ohm



The Proximity Effect

The proximity effect exhibited by DPA 4099



On-Axis Frequency Response with DAD4099 XLR Adapter

Measured at 20 cm (7.9 in) distance

Cable drive capability

Up to 300 m (984 ft) with DAD4099 or DAD6001-BC XLR adapter

Output balance principle

Signal balanced with DAD4099 or DAD6001-BC XLR adapter

Common Mode Rejection Ratio (CMRR)

> 60 dB from 50 Hz to 15 kHz with DAD4099 or DAD6001-BC XLR adapter

Power supply (for full performance)

Min. 5 V to max. 50 V through DPA adapter for wireless systems

48 V phantom power ± 4 V with DAD4099 or DAD6001-BC XLR adapter

Current consumption

Typ. 1.5 mA (microphone)

3.5 mA with DAD4099 or DAD6001-BC XLR adapter

Connector

MicroDot

Color

Black

Weight

4099B: 46 g (1.62 oz)

4099C: 38 g (1.34 oz)

4099D: 38 g (1.34 oz)

4099G: 36 g (1.27 oz)

4099P: 46 g (1.62 oz)

4099S: 31 g (1.1 oz)

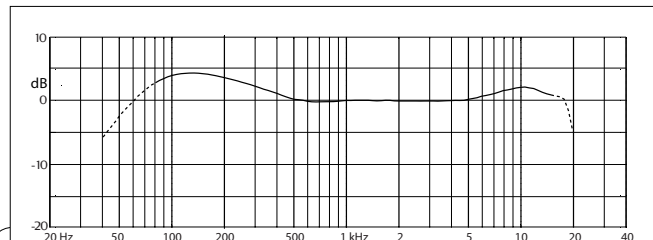
4099T: 31 g (1.1 oz)

4099U: 41 g (1.4 oz)

4099V: 33 g (1.16 oz)

Capsule diameter

5.4 mm (0.2 in)



On-Axis Frequency Response with DAD4099 XLR Adapter

Measured at 10 cm (3.9 in) distance

Microphone length

45 mm (1.8 in)

Gooseneck length

140 mm (5.5 in)

Cable length

1.8 m (6 ft)

Polarity

+V at MicroDot pin for positive sound pressure

(and pin 2 on DAD4099 or DAD6001-BC XLR adapter)

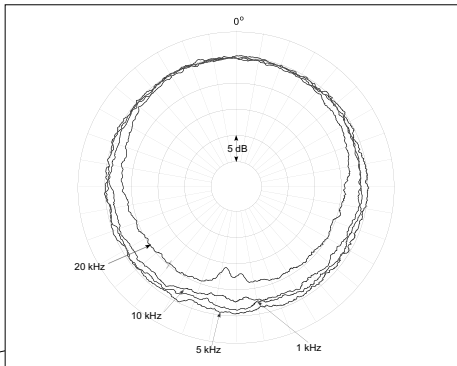
Operating temperature range

-40 °C to 45 °C (-40 °F to 113 °F)

Operating relative humidity

Up to 90 %

Specifications for DPA 4090 & 4091



Polar Pattern

Directional characteristics of DPA 4090 & 4091 (normalized)

Directional characteristics

Omnidirectional

Principle of operation

Pressure

Cartridge type

Pre-polarized condenser

Frequency range, ± 2 dB

20 Hz – 20 kHz

Sensitivity, nominal, ± 3 dB at 1 kHz

4090: 20 mV/Pa; -34 dB re. 1 V/Pa

4091: 6 mV/Pa; -44 dB re. 1 V/Pa

Equivalent noise level, A-weighted

4090: Typ. 23 dB(A) re. 20 μ Pa (max. 26 dB(A))

4091: Typ. 26 dB(A) re. 20 μ Pa (max. 28 dB(A))

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

4090: Typ. 35 dB (max. 38 dB)

4091: Typ. 38 dB (max. 40 dB)

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

4090: Typ. 71 dB(A)

4091: Typ. 68 dB(A)

Total Harmonic Distortion (THD)

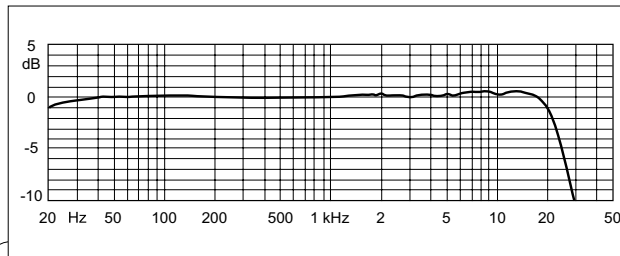
< 1 % up to 123 dB SPL peak

Dynamic range

4090: Typ. 100 dB; 4091: Typ. 97 dB

Max. SPL, peak before clipping

4090: 134 dB; 4091: 144 dB



On-Axis Frequency Response

Output impedance

< 40 ohm

Cable drive capability

Up to 300 m (984 ft)

Output balance principle

Impedance balanced

Common Mode Rejection Ratio (CMRR)

> 40 dB

Power supply (for full performance)

48 V Phantom power ± 4 V

Current consumption

2 mA

Connector

3-pin XLR-M

Color

Black

Dimensions

Weight: 38 g (1.34 oz)

Microphone diameter: 19 mm (0.75 in); at tip: 6.7 mm (0.26 in)

Capsule diameter: 5.4 mm (0.21 in)

Microphone length: 122 mm (4.8 in)

Polarity

+V at pin 2 for positive sound pressure

Operating conditions

Temperature range: -40 °C to 45 °C (-40 °F to 113 °F)

Operation relative humidity

Up to 90 %

DPA 
MICROPHONES

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