

Specifications

SC4060, SC4061, SC4062, SC4063, SC4071
4080, SCO60-H, SCO61-H, SCO71-H

Directional characteristics

SC4060/61/62/63/71, SCO60-H/61-H/71-H: Omnidirectional
4080: Cardioid

Principle of operation

SC4060/61/62/63/71, SCO60-H/61-H/71-H: Pressure
4080: Pressure Gradient

Cartridge type

Pre-polarized condenser element with vertical diaphragm

Frequency range, ± 2 dB

SC4060/61/62/63/71, SCO60-H/61-H:
Soft boost grid: 20 Hz- 20 kHz, 3 dB soft boost at 8 – 20 kHz
High boost grid: 20 Hz- 20 kHz, 10 dB boost at 12 kHz
SC4071, SCO71-H:
100 Hz – 15 kHz with typ. 5 dB soft boost at 4-6 kHz
4080:
250 Hz – 17 kHz with typ. 4 dB soft boost at 4 - 6 kHz (-5 dB at 100 Hz)

Sensitivity, nominal, ± 3 dB at 1 kHz

SC4060, SCO60-H, 4080: 20 mV/Pa; -34 dB re. 1 V/Pa
SC4061/63/71, SCO61-H/71-H: 6 mV/Pa; -44.5 dB re. 1V/Pa
SC4062: 1 mV/Pa; -60 dB re. 1V/Pa

Equivalent noise level, A-weighted

SC4060, SCO60-H, 4080: Typ. 23 dB(A) re. 20 µPa (max. 26 dB(A))
SC4061/63/71, SCO61-H/71-H: Typ. 26 dB(A) re. 20 µPa (max. 28 dB(A))
SC4062: Typ. 33 dB(A) re. 20 µPa (max. 37 dB(A))

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

SC4060, SCO60-H, 4080: 71 dB
SC4061/63/71, SCO61-H/71-H: 68 dB
SC4062: 61 dB

Total Harmonic Distortion (THD)

<1% THD up to 123 dB SPL peak
<1% THD up to 120 dB SPL RMS sine

Dynamic Range

SC4060, SCO60-H, 4080: Typ. 100 dB
SC4061/63/71, SCO61-H/71-H: Typ. 97 dB
SC4062: Typ. 90 dB

Max. SPL peak before clipping

SC4060, SCO60-H, 4080: 134 dB
SC4061/71, SCO61-H/71-H: 144 dB
SC4062: 154 dB
SC4063: 138 dB

Output impedance

30 – 40 Ω, depending on current draw

Cable drive capability

300 m (984 ft) with DAD6001-BC/DAD6024/DAD4099 XLR phantom power adapter

Power supply

With DAD6001-BC/DAD6024/DAD4099: 48 V phantom power ±4 V for full performance.
For wireless systems: Min. 5 V through DPA adapter (SC4063 min. 3 V).

Polarity

Positively increasing sound pressure produces positive going voltage on MicroDot pin.

Connector

MicroDot, adapters are available

Weight incl. cable and MicroDot connector

SC4060/61/62/63: 7.5 g (0.26 oz)
SC4071: 9 g (0.32 oz)
4080: 15 g (0.53 oz)
SCO60-H/61-H: 13 g (0.46 oz)
SCO71-H: 14 g (0.49 oz)

Cable length

1.8 m (5.9 ft) (4080: 1.2 m (4 ft))

Cable diameter

SC4060/61/62/63/71, 4080: 1.6 mm (0.06 in)
SCO60-H/61-H/71-H: 2.2 mm (0.09 in)

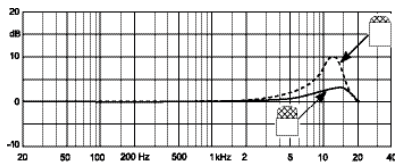
Temperature range

-40 °C to +45 °C

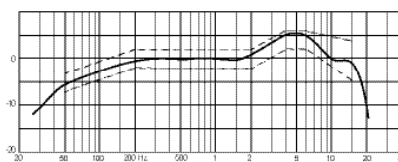
Relative Humidity (RH)

Up to 90%

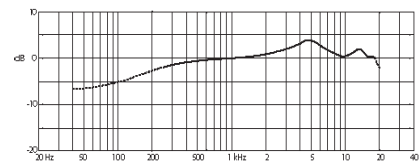
Frequency Response



SC4060/61/62/63, SCO60-H/61-H

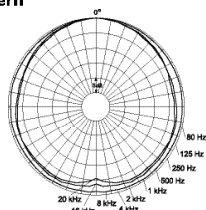


SC4071, SCO71-H

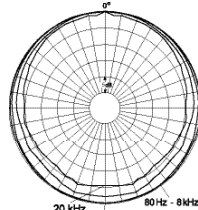


4080

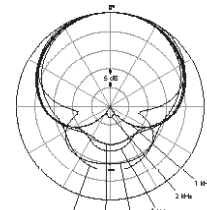
Polar pattern



SC4060/61/62/63, SCO60-H/61-H



SC4071, SCO71-H



4080

Service & Repair

Products from DPA Microphones are extremely stable and there should not be any significant change in the specifications with time and use. If, however, you are not totally satisfied with the characteristics exhibited by these products, please contact your nearest DPA Microphones representative for further details of service and the repair facilities that are available.

CE Marking

The CE mark guarantees that the product conforms with relevant directives approved by the European Commission.

EMC directive: 2004/108/EEC

Low voltage directive: 2006/95/EC



Environmental Policy

This product is comprised by the Waste ("WEEE") directive and should not be thrown in the garbage bin when obsolete. Instead, return it to your local DPA representative (or DPA Microphones A/S directly) who will dispose of the product in accordance with the current environmental standards.

RoHS directive: 2002/95/EC
WEEE directive: 2002/96/EC

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Product features and specifications are subject to change, without notice.



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