RE520 Condenser supercardioid vocal microphone

- Premium condenser element delivers a highly-detailed, full, and vivid sound
- Supercardioid polar pattern provides excellent acoustic isolation and feedback control
- Multi-stage pop filter minimizes breath blasts and plosives
- Selectable high-pass filter reduces undesirable low frequency content when engaged
- Vibration-absorbing internal shock mount minimizes handling noise

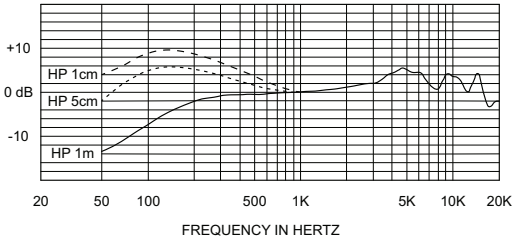
The RE520 is a premium-grade, high-performance, condenser supercardioid vocal microphone. Designed to reveal the exceptional detail and vivid clarity synonymous with condenser elements, it elegantly delivers the lyrical finesse required for expressive vocal performances, while controlling off-axis sound from near-by sources.
The sonic signature is detailed, full and vivid, with a warm and clear low end, natural and present midrange, and an open, crisp and detailed high end.
The supercardioid pattern provides excellent acoustic isolation. Maximum feedback rejection occurs when a stage monitor position is at either 225° or 125° off-axis to the element. This pattern also allows for a cleaner mix due to its rejection of off-axis sound.
The multi-stage pop filter consists of two layers of dense foam separated by air, which attenuates wind velocity caused by breath and windblasts.
The high-pass filter has two positions (see drawing). The flat position delivers the full frequency band pass of the capsule. The high-pass position attenuates frequencies below 150 Hz.
The internal shock mount isolates the microphone element from vibration and guards against handling noise.

Technical specifications

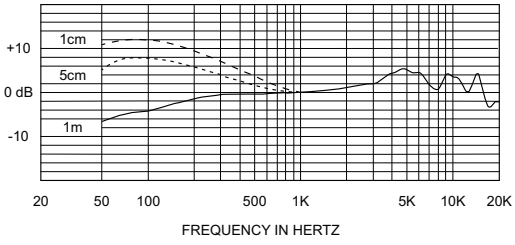
Element type:	Self-biased condenser
Frequency response:	40 Hz-20 kHz (see chart)
Polar pattern:	Supercardioid
Sensitivity, open circuit voltage, 1 kHz:	5.6 mV/Pascal (-45 dBV/Pa)
Clipping (max SPL):	150 dB SPL (1% THD)
Self noise:	17 dB SPL "A" weighed (0 dB=20 µPa)
Dynamic range:	133 dB
Signal-to-Noise ratio:	77 dB
Output impedance:	200 ohms
Power requirements:	48 VDC phantom power
Polarity:	Positive pressure on diaphragm produces positive voltage on pin 2 relative to pin 3
Microphone connector:	3-pin, XLR-type
Finish:	Black polyurethane paint

Materials:	Zinc die cast, steel wire cloth grille
Dimensions, length: diameter: shank:	7.6 in. (192 mm) 1.95 in. (49.5 mm) 0.96 in. (24.3 mm)
Net weight:	11.7 oz (332 g)
Shipping weight:	1 lb 5.1 oz (598 g)

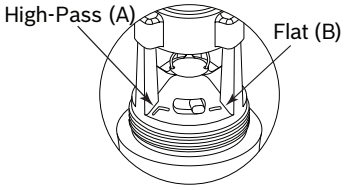
Frequency response:
High-Pass



Flat

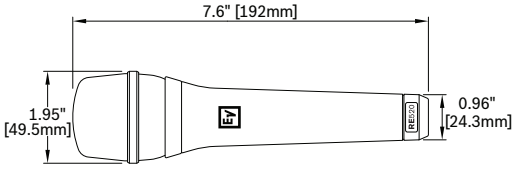


High-Pass filter:

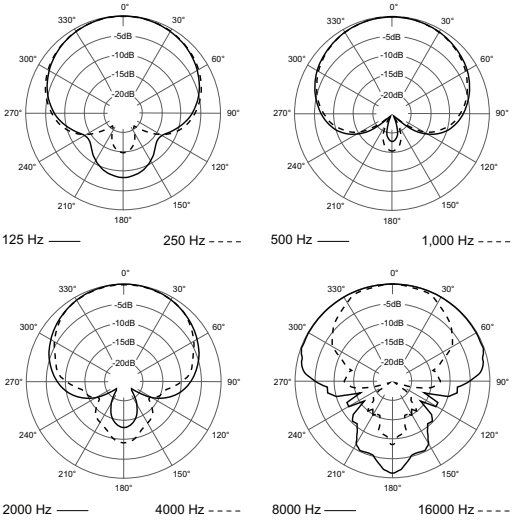


A High-Pass B Flat

Dimensions:



Polar response:



Replacement parts	Description
RE520GRILLE	Replacement grille, black
NDVOCCLIP	Replacement stand adapter, black

Parts included

Quantity	Component
1	Microphone
1	Gig bag
1	Stand clip
1	Engineering datasheet
1	Warranty and product documentation information card

Ordering information

RE520 Condenser supercardioid vocal microphone
Condenser supercardioid vocal microphone, black
Order number **RE520**

Accessories

379-1 379-1 WINDSCREEN, BLACK, PACKAGED
Foam windscreen/pop filter, black
Order number **379-1**

Represented by:

Germany:
Bosch Sicherheitssysteme GmbH
Robert-Bosch-Ring 5
85630 Grasbrunn
Germany

Bosch Security Systems, Inc.
12000 Portland Avenue South
Burnsville MN 55337
USA

www.electrovoice.com

© Bosch Security Systems 2018 | Data subject to change without notice
Document Number F.01U.354.343 | Vs1 | 19. Jun 2018