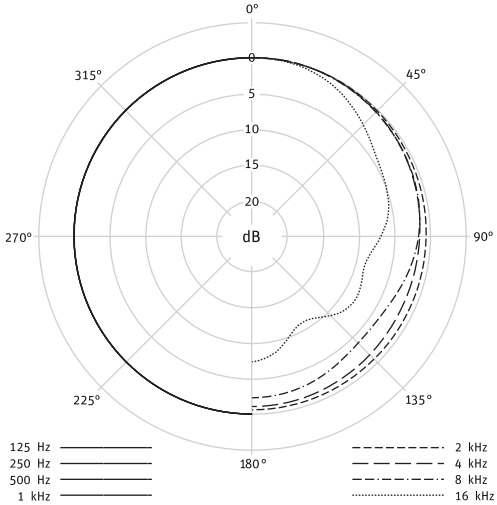
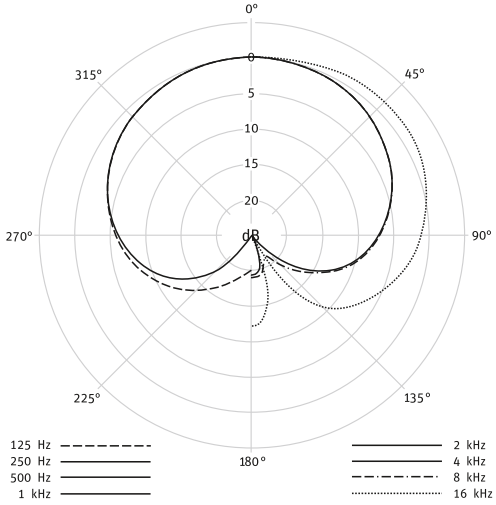


KK 13



KK 14



► **NEUMANN.BERLIN**

► **Miniature Clip Microphone**

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Specifications	MCM 113 (KK 13 with MCM 100)	MCM 114 (KK 14 with MCM 100)
Acoustic operating principle	Pressure transducer	Pressure gradient transducer
Directional pattern	Omni	Cardioid
Frequency range	20 Hz - 20 kHz	20 Hz - 20 kHz
Sensitivity at 1 kHz into 1 kΩ	3.3 mV/Pa ≅49.6 dBV ± 2 dB	3.6 mV/Pa ≅ 49 dBV ± 2 dB
Rated output impedance	KK 13: 10 Ω MCM 100: 50 Ω	KK 14: 10 Ω MCM 100: 50 Ω
Rated load impedance	1000 Ω	1000 Ω
Signal-to-noise ratio, CCIR ¹⁾ (rel. 94 dB SPL)	62 dB	63 dB
Signal-to-noise ratio, A-weighted ¹⁾ (rel. 94 dB SPL)	74 dB	71 dB
Equivalent noise level, CCIR ¹⁾	32 dB	31 dB
Equivalent noise level, A-weighted ¹⁾	20 dB-A	23 dB-A
Maximum SPL ²⁾ for THD < 0.5 %		
with MCM 100, U _{supply} = 10 V, R _{feed} = 20 kΩ	153 dB SPL	153 dB SPL
with U _{supply} = 5 V, R _{feed} = 8.25 kΩ	147 dB SPL	147 dB SPL
Dynamic range of the amplifier, A-weighted ²⁾ for THD < 0.5 %	133 dB	130 dB
Power supply	KK 13: ≤ 10 V, with R _{feed} = 20 kΩ MCM 100: 48 V ± 4 V (P48, IEC 61938)	KK 14: ≤ 10 V, with R _{feed} = 20 kΩ MCM 100: 48 V ± 4 V (P48, IEC 61938)
Current consumption	KK 13: 0.22 mA MCM 100: 3.5 mA	KK 14: 0.22 mA MCM 100: 3.5 mA
Required connector	XLR-3F	XLR-3F
Weight	KK 13: 2.8 g MCM 100: 96 g	KK 14: 2.3 g MCM 100: 96 g
Dimensions (Ø x L)	KK 13: Ø 12 mm x 13.5 mm MCM 100: Ø 22 mm x 77 mm	KK 14: Ø 12 mm x 12 mm MCM 100: Ø 22 mm x 77 mm
Operating temperature range	0 °C - +40 °C (32 °F - 104 °F)	0 °C - +40 °C (32 °F - 104 °F)
Storage temperature range	-20 °C - +70 °C (-4 °F - 158 °F)	-20 °C - +70 °C (-4 °F - 158 °F)
Operating humidity range	0 % - 90 %	0 % - 90 %
Storage humidity range	0 % - 95 %	0 % - 95 %

¹⁾ according to IEC 60268-1; CCIR-weighting according to CCIR 468-3, quasi peak; A-weighting according to IEC 61672-1, RMS

²⁾ THD of microphone amplifier at an input voltage equivalent to the capsule output at the specified SPL

Specifications	SH 100	SH 150	SH 250
Overall length	144 mm	194 mm	294 mm
Weight	16 g	20 g	30 g

Clips	MC 1	MC 2	MC 3	MC 4	MC 5	MC 6	MC 7	MC 8	MC 9
Suitable for	violin, viola, mandolin,	cello	double bass	double bass	oboe, clarinet, recorder, basson, flute, harp	trumpet, trombone, saxophone, french horn, percussion, stands	tom, snare, stand tom	piano, grand piano	acoustic guitar, ukulele, dobro, acoustic bass, cello
Clip aperture (with reducer)	32 - 50 mm	-	-	202 - 246 mm (169 - 213 mm)	10 - 80 mm	0 - 20 mm	-	-	85 - 132 mm (52 - 99 mm)
Diameter of strings	-	0.6 - 2.3 mm	1 - 2.6 mm	-	-	-	-	-	-
Weight	16 g	12 g	20 g	38 g	20 g	20 g	10 g	20 g	25 g

	MCM 114 set high strings	MCM 114 set cello	MCM 114 set bass	MCM 114 set woodwinds	MCM 114 set brass/sax/uni	MCM 114 set drums	MCM 114 stereo set piano	MCM 114 set guitar
KK 14 MCM capsule head KK 14 cardioid	●	●	●	●	●	●	● ●	●
SH 100 MCM gooseneck 100 mm	●							
SH 150 MCM gooseneck 150 mm		●	●	●	●	●	● ●	●
MCM 100 MCM output stage XLR	●	●	●	●	●	●	● ●	●
WS 110 MCM windscreen soft	●	●	●	●	●	●	● ●	●
AC 31 MCM cable mini jack 1.8 m	●	●	●	●	●	●	● ●	●
MC 1 MCM clip high strings	●							
MC 2 MCM strings clip cello		●						
MC 3 MCM strings clip double bass			●					
MC 5 MCM universal strap clip				●				
MC 6 MCM universal clamp clip					●			
MC 7 MCM clip drum rims						●		
MC 8 MCM magnetic piano clip							● ●	
MC 9 MCM clip guitar								●
KC 1 MCM cable brace	●	●	●	●	●	●	● ●	●
Softcase	●	●	●	●	●	●	● ●	●

Non-Set articles:
(only available individually)

KK 13	MCM capsule head KK 13 omni
MC 4	MCM rib clip double bass
SH 250	MCM gooseneck 250 mm
AC 31	MCM cable mini jack 0.6 m, 3.0 m

AC 32	MCM cable LEMO 3 pin 0.6 m, 1.8 m, 3.0 m
AC 33	MCM cable MicroDot 0.6 m, 1.8 m, 3.0 m
AC 34	MCM cable mini XLR 4 pin 0.6 m, 1.8 m, 3.0 m

