Moving Magnet Cartridges

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TECHNICAL DATA	SUPER OM 40	SUPER OM 30	SUPER OM 20	SUPER OM 10
Output voltage at 1000 Hz, 5cm/sec.	4 mV	4 mV	4 mV	4 mV
Channel balance at 1 kHz	1 dB	1 dB	1,5 dB	1,5 dB
Channel separation at 1 kHz	25 dB	25 dB	25 dB	22 dB
Channel separation at 15 kHz	15 dB	15 dB	15 dB	15 dB
Frequency range at - 3dB	20-30.000 Hz	20-29.000 Hz	20-27.000 Hz	20-24.000 Hz
Frequency response	20-20.000 + 2 / - 0 dB	20-20.000 + 2 / - 0 dB	20-20.000 + 2 / - 1 dB	20-20.000 Hz + 3 / - 1 dB
FIM distortion at recommended tracking force, DIN 45.542	< 1%	< 1%	< 1%	< 1%
Tracking ability at 315Hz at recommended tracking force	90 µm	90 µm	80 µm	70 µm
Compliance, dynamic, lateral	25 µm/mN	25 µm/mN	25 µm/mN	25 µm/mN
Stylus type	Nude FG 70	Nude Fine Line	Nude elliptical	Elliptical
Stylus tip radius	r/R 7/70 µm	r/R 8/40 µm	r/R 8/18 µm	r/R 8/18 µm
Equivalent stylus tip mass	0,3 mg	0,3 mg	0,4 mg	0,5 mg
Tracking force range	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)
Tracking force, recommended	1,5 g (15 mN)	1,5 g (15 mN)	1,5 g (15 mN)	1,5 g (15 mN)
Tracking angle	20°	20°	20°	20°
Internal impedance, DC resistance	1 kOhm	1 kOhm	1 kOhm	1 kOhm
Internal inductance	580 mH	580 mH	580 mH	580 mH
Recommended load resistance	47 kOhm	47 kOhm	47 kOhm	47 kOhm
Recommended load capacitance	200-400 pF	200-400 pF	200-400 pF	200-400 pF
Cartridge colour, body/stylus	Black/Black	Black/Black	Black/Black	Black/Black
Cartridge weight	5 g	5 g	5 g	5 g
Replacement stylus unit	Stylus 40	Stylus 30	Stylus 20	Stylus 10

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TECHNICAL DATA	OM 5 E	OM 3 E	OM D 25 M	OM 78
Output voltage at 1000 Hz, 5cm/sec.	4 mV	4 mV	4 mV, Lateral (mono)	4 mV, Lateral (mono)
Channel balance at 1 kHz	2 dB	2 dB		
Channel separation at 1 kHz	22 dB	22 dB		
Channel separation at 15 kHz	15 dB	15 dB		
Frequency range at - 3dB	20-25.000 Hz	20-22.000 Hz	20-20.000 Hz	20-15.000 Hz
Frequency response	20-20.000 ± 2 dB	20-18.000 + 2 / - 3 dB	20-18.000 + 3 / - 2 dB	
FIM distortion at recommended tracking force, DIN 45.542	< 1%	< 1%	< 1%	
Tracking ability at 315Hz at recommended tracking force	65 µm	60 µm	70 µm	70 µm
Compliance, dynamic, lateral	20 µm/mN	20 µm/mN	7 µm/mN	15 µm/mN
Stylus type	Elliptical	Elliptical	Spherical	Spherical
Stylus tip radius	r/R 8/18 µm	r/R 8/18 µm	R 25 µm	R 65 µm
Equivalent stylus tip mass	0,5 mg	0,5 mg	0,5 mg	0,5 mg
Tracking force range	1,5-2,0 g (15-20 mN)	1,5-2,0 g (15-20 mN)	3,0-5,0 g (30-50 mN)	1,8-2,5 g (18-25 mN)
Tracking force, recommended	1,75 g (17,5 mN)	1,75 g (17,5 mN)	4,0 g (40 mN)	2,0 g (20 mN)
Tracking angle	20°	20°	20°	20°
Internal impedance, DC resistance	750 Ohm	750 Ohm	750 Ohm	750 Ohm
Internal inductance	450 mH	450 mH	450 mH	450 mH
Recommended load resistance	47 kOhm	47 kOhm	47 kOhm	47 kOhm
Recommended load capacitance	200-600 pF	200-600 pF	200-600 pF	200-600 pF
Cartridge colour, body/stylus	Black/Black	Black/Black	Black/Black	Black/Black
Cartridge weight	5 g	5 g	5 g	5 g
Replacement stylus unit	Stylus 5 E	Stylus 3 Ev	Stylus D 25 M	Stylus 78

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TECHNICAL DATA	510 MK II	520 MK II	530 MK II	540 MK II
Output voltage at 1000 Hz, 5cm/sec.	3 mV	3 mV	3 mV	3 mV
Channel balance at 1 kHz	1,5 dB	1,5 dB	1,5 dB	1,5 dB
Channel separation at 1 kHz	23 dB	23 dB	25 dB	25 dB
Channel separation at 15 kHz	15 dB	15 dB	15 dB	15 dB
Frequency range at - 3dB	20-23.000 Hz	20-23.000 Hz	20-25.000 Hz	20-27.000 Hz
Frequency response	20-20.000 Hz ± 2 dB	20-20.000 Hz ± 1,5 dB	20-20.000 Hz ± 1,5 dB	20-20.000 Hz ± 1,5 dB
FIM distortion at recommended tracking force, DIN 45.542	< 1%	< 1%	< 1%	< 1%
Tracking ability at 315Hz at recommended tracking force	70 µm	70 µm	80 µm	90 µm
Compliance, dynamic, lateral	25 µm/mN	25 µm/mN	25 µm/mN	25 µm/mN
Stylus type	Elliptical	Nude elliptical	Nude Fine Line	Nude FG 70
Stylus tip radius	r/R 8/18 µm	r/R 8/18 µm	r/R 8/40 µm	r/R 5/70 µm
Equivalent stylus tip mass	0,3 mg	0,3 mg	0,3 mg	0,3 mg
Tracking force range	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)
Tracking force, recommended	1,5 g (15 mN)	1,5 g (15 mN)	1,5 g (15 mN)	1,5 g (15 mN)
Tracking angle	20°	20°	20°	20°
Internal impedance, DC resistance	1 kOhm	1 kOhm	1 kOhm	1 kOhm
Internal inductance	580 mH	580 mH	580 mH	580 mH
Recommended load resistance	47 kOhm	47 kOhm	47 kOhm	47 kOhm
Recommended load capacitance	200-400 pF	200-400 pF	200-400 pF	200-400 pF
Cartridge colour, body/stylus	Black/Black	Black/Black	Black/Black	Black/Black
Cartridge weight	5 g	5 g	5 g	5 g
Replacement stylus unit	510 Mk II	520 Mk II	530 Mk II	540 Mk II

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TECHNICAL DATA	OMP 10	OMP 5 E	320 UNIVERSAL	310 UNIVERSAL
Output voltage at 1000 Hz, 5cm/sec.	4 mV	4 mV	5 mV	5 mV
Channel balance at 1 kHz	2 dB	2 dB	1,5 dB	2 dB
Channel separation at 1 kHz	22 dB	22 dB	22 dB	22 dB
Channel separation at 15 kHz	15 dB	15 dB	15 dB	15 dB
Frequency range at - 3dB	20-25.000 Hz	20-25.000 Hz	20-22.000 Hz	20-20.000 Hz
Frequency response	20-20.000 Hz ± 2 dB	20-20.000 Hz ± 2 dB	20-20.000 Hz ± 1,5 dB	20-18.000 Hz ± 2 dB
FIM distortion at recommended tracking force, DIN 45.542	< 1%	< 1%	< 1%	< 1%
Tracking ability at 315Hz at recommended tracking force	65 µm	55 µm	70 µm	60 µm
Compliance, dynamic, lateral	25 µm/mN	20 µm/mN	25 µm/mN	20 µm/mN
Stylus type	Elliptical	Elliptical	Nude Fine Line	Elliptical
Stylus tip radius	r/R 8/18 µm	r/R 8/18 µm	r/R 8/40 µm	r/R 8/18 µm
Equivalent stylus tip mass	0,5 mg	0,5 mg	0,5 mg	0,5 mg
Tracking force range	1,25-1,75 g (12,5-17,5 mN)	1,25-2,0 g (12,5-20,0 mN)	1,25-1,75 g (12,5-17,5 mN)	1,25-1,75 g (12,5-17,5 mN)
Tracking force, recommended	1,25 g (12,5 mN)	1,25 g (12,5 mN)	1,5 g (15 mN)	1,5 g (15 mN)
Tracking angle	20°	20°	20°	20°
Internal impedance, DC resistance	750 Ohm	750 Ohm	750 Ohm	750 Ohm
Internal inductance	450 mH	450 mH	450 mH	450 mH
Recommended load resistance	47 kOhm	47 kOhm	47 kOhm	47 kOhm
Recommended load capacitance	200-600 pF	200-600 pF	200-600 pF	200-600 pF
Cartridge colour, body/stylus	Black/Black	Black/Black	Grey/Grey	Grey/Grey
Cartridge weight	6 g	6 g	5 g	5 g
Replacement stylus unit	Stylus 10	Stylus 5 E	320	310

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accuracy in sound

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