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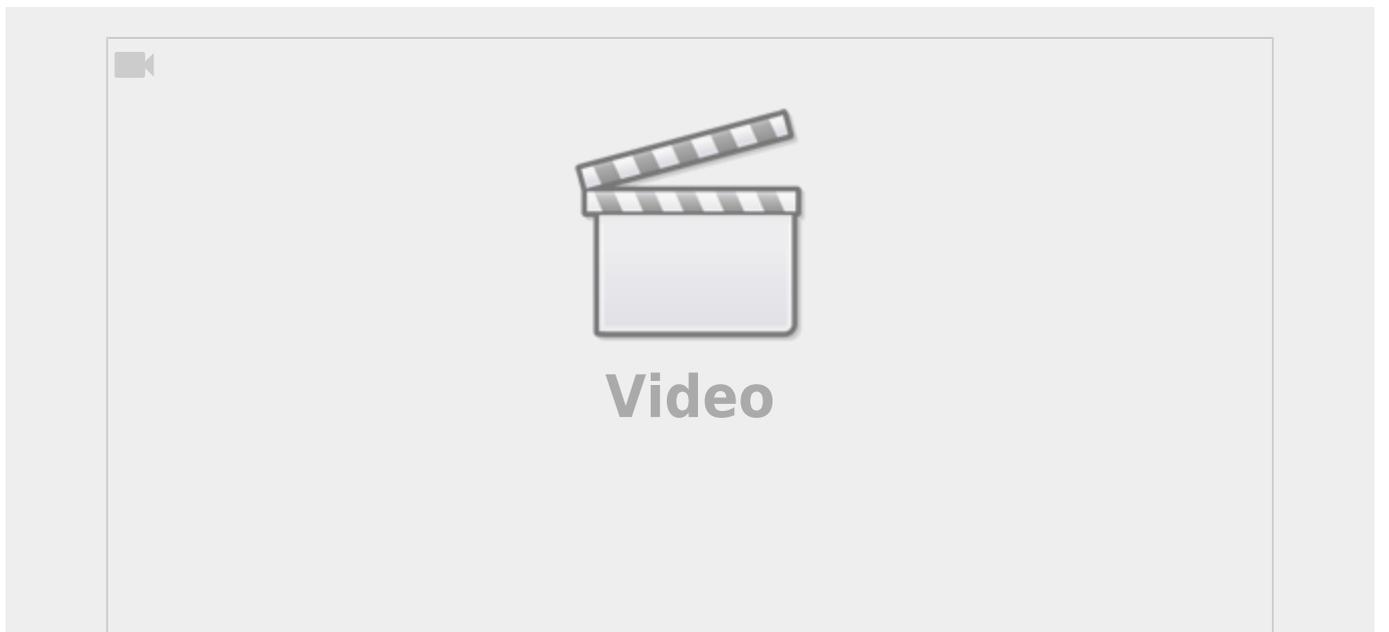
- Behringer MA400
- Mackie HM-4
- Rupert Neve RNHP

- $Z = \frac{V}{I}$;
- $P = V \times I$; (Watt)

, Power V Z

- $I = \frac{V}{Z}$

$$P = \frac{V^2}{Z}$$



dBu(m) mW() 가 .

dBu 600Ω

, EBU +4dBu

18dB 22dBu , 20dB 24dBu

600Ω 22dBm

158mW 600Ω

22dBu 158mW(@600Ω)

, 300Ω ³⁾ 79mW(19dBm)

가 22dBu

22dBu가

가

OVU(+4dBu) ,

가 85dB SPL , OVU 85dB SPL

가

1mW dB SPL

가 97dB SPL/mW⁴⁾ 1mW 97dB SPL

⁵⁾

80mW 2mW 100dB SPL,

4mW 103dB SPL....

64mW 115dB SPL , 128mW 118dB SPL 가

80mW 116dB SPL 가 .

100dB SPL 116dB SPL Max, OVU

. Dolby Volume 85dB SPL RMS , 103dB SPL Peak(18dB

)

가

가
6)

, 85~86dB SPL/mW

103~105dB SPL Peak 가

가
가

Apogee Groove

Max Output level: 225mW into 30Ω 40mW into 600Ω

가

300Ω
80mW
가

가 HD600 80mW
116dB SPL Peak

가



<https://www.youtube.com/watch?v=xLShpyzwjJs>

Headphone Output Comparison	Frequency Response	Output Impedance	Output Power	Output Power	Output Power	Output Power	Output Power	THD+N	THD+N	Noise Floor	Noise	Channel Balance	Crosstalk
	20 Hz - 20 kHz @ 300 mV 32 Ohm ± dB	@ 1 kHz Ohm	into 16 Ohm mW	into 32 Ohm mW	into 150 Ohm mW	into 300 Ohm mW	into 600 Ohm mW	20 Hz - 20 kHz @ 1 kHz 300 mV 32 Ohm dB	20 Hz - 20 kHz @ 1 kHz 920 mV 300 Ohm dB	@ minimum gain dBV(A)	@ 0 dBFS = 1 V dBV(A)	@ 10 mV ± dB	@ 10 kHz 300 mV 32 Ohm dB
ASRock P67 Pro3 front	2.00	80.00	2.70	4.00	4.40	3.20	2.00	-77.50	-78.40	-92.80	-92.80	0.05	-44.10
ASRock P67 Pro3 rear	0.60	198.00	0.21	0.40	1.20	1.50	1.50	-62.50	-75.10	-87.50	-87.50	0.03	-82.90
ASRock Z370 Taichi front	0.10	170.00	3.60	6.20	11.60	10.80	8.10	-87.90	-90.10	-90.70	-90.70	0.06	-58.20
ASRock Z370 Taichi rear	0.00	76.00	5.63	8.30	10.40	7.50	5.50	-92.50	-94.50	-100.50	-100.50	0.06	-73.10
MSI PRO Z690-A front	2.00	82.00	2.14	3.20	3.60	2.70	1.70	-66.80	-75.20	-100.60	-100.60	0.00	-49.80
MSI PRO Z690-A rear	2.10	81.00	2.14	3.20	3.60	2.60	1.60	-66.90	-75.10	-100.80	-100.80	0.03	-75.90
Antelope Zen Go Synergy Core	0.10	27.30	36.20	60.90	63.70	46.60	25.70	-88.90	-98.80	-111.40	-111.40	0.00	-50.10
Audient EVO 4	0.10	22.14	14.40	21.00	24.10	16.90	10.90	-81.83	-95.38	-103.30	-103.30	0.02	-78.00
Audient iD4 MKII	0.10	22.30	76.31	107.20	123.30	80.00	53.80	-96.50	-102.60	-108.30	-108.30	0.00	-79.90
Audient iD14	2.20	22.90	17.29	34.50	32.30	29.00	19.70	-82.60	-94.50	-100.60	-100.60	0.05	-74.60
Audient iD14 MKII	0.20	22.10	70.89	112.80	83.50	75.50	40.50	-96.50	-100.90	-113.10	-113.10	0.00	-78.80
Arturia MiniFuse 1 and 2	0.10	11.20	176.40	145.80	49.30	26.50	13.70	-72.80	-89.60	-102.60	-101.60	1.50	-68.10
Behringer UM2	0.70	10.17	13.46	17.30	11.60	7.00	3.90	-79.16	-85.47	-110.70	-92.70	2.00	-66.20
Behringer UMC22	0.70	10.32	13.00	16.90	11.30	6.90	3.80	-79.03	-86.08	-109.90	-92.70	1.10	-63.70
Behringer UMC202HD	0.80	10.30	13.92	18.00	11.60	7.00	3.90	-69.09	-83.97	-100.60	-100.50	0.80	-67.20
Behringer UMC404HD	0.60	22.00	16.58	17.10	8.10	4.40	2.40	-75.90	-76.30	-103.20	-100.10	1.80	-80.00
Black Lion Audio Revolution 2x2	0.20	2.10	26.41	101.30	75.30	39.70	20.70	-84.60	-93.70	-97.70	-97.90	6.70	-57.40
Elgato WAVE XLR	0.50	1.50	72.90	39.90	9.00	4.60	2.30	-74.50	-80.50	-98.10	-98.10	0.00	-55.90
Focusrite Clarett 2Pre USB	0.50	5.30	87.03	172.60	144.80	74.90	38.10	-50.30	-91.40	-106.20	-105.50	1.30	-39.50
Focusrite Clarett+ 2Pre	0.20	5.20	87.03	162.50	146.00	75.50	38.60	-88.80	-100.90	-106.90	-106.60	5.00	-58.00
Focusrite Scarlett 2i2 Gen 2	0.20	10.23	12.38	20.00	28.00	21.70	11.40	-75.30	-95.40	-102.70	-101.70	1.20	-60.60
Focusrite Scarlett 2i2 Gen 3	0.50	0.31	28.48	31.90	15.20	8.00	4.70	-48.40	-84.55	-103.30	-102.70	0.50	-38.10
Focusrite Scarlett Solo Gen 3	0.40	0.35	30.02	31.90	14.80	8.40	4.50	-48.42	-86.15	-103.30	-102.60	0.90	-39.00
M-AUDIO air 192 4	0.20	10.15	48.73	41.30	14.20	7.50	4.00	-81.32	-81.56	-101.20	-101.50	2.70	-79.40
M-AUDIO M-Track Solo and Duo	1.00	10.10	25.60	22.60	7.30	3.90	2.00	-69.88	-81.75	-103.40	-95.20	0.50	-79.20
MOTU M2	0.20	0.06	13.57	21.60	29.10	23.10	14.60	-93.17	-101.76	-109.20	-109.20	0.01	-72.90
MOTU UltraLite-mk5	0.10	0.17	24.96	50.20	85.90	54.10	27.10	-93.50	-103.90	-109.10	-104.90	0.00	-55.70
NI Komplete Audio 1 and 2	0.20	10.21	65.66	50.70	16.50	8.90	4.50	-72.59	-88.40	-104.70	-103.50	0.50	-71.50
PreSonus AudioBox GO	0.10	22.20	28.90	36.50	17.70	10.20	5.50	-82.50	-83.50	-101.90	-100.10	0.70	-79.90
PreSonus Audiobox USB 96	4.40	0.56	77.01	45.80	11.00	5.60	2.90	-62.30	-79.40	-98.20	-98.90	1.30	-69.00
PreSonus Studio 24c	0.20	22.20	50.63	51.20	23.60	13.50	7.20	-92.70	-96.90	-108.30	-105.70	1.00	-75.60
Rode AI-1	0.80	4.25	198.03	243.30	113.70	61.30	31.70	-81.00	-85.50	-94.90	-96.20	2.50	-83.50
Solid State Logic SSL 2	0.20	10.87	51.76	90.30	35.30	19.00	9.80	-54.87	-94.95	-111.90	-108.20	0.70	-54.80
Steinberg UR22C	0.40	90.68	8.46	13.00	15.80	12.00	7.70	-92.50	-95.82	-110.90	-105.50	1.20	-79.00
Steinberg UR22 MKII	0.40	91.00	3.78	5.80	7.00	5.30	3.40	-86.86	-87.24	-112.20	-104.70	0.30	-81.40
Tascam US-2x2HR	0.80	66.60	9.75	16.20	27.20	24.00	17.20	-63.20	-96.40	-115.20	-109.30	1.90	-61.30
Universal Audio Volt 2 and 276	0.20	10.90	93.03	107.00	54.20	31.00	16.50	-95.70	-99.20	-107.40	-105.50	1.10	-76.60
RME Babyface Pro FS	0.10	10.13	33.76	61.30	67.40	35.90	18.70	-93.90	-100.60	-112.30	-112.30	0.00	-77.40
RME Babyface Pro FS 3.5 mm	0.10	0.25	150.16	88.20	19.00	9.50	4.80	-96.70	-105.60	-115.50	-115.50	0.00	-75.60

1)

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2)

가 가
3.5mm TRS 1/4 "TRS

3)

HD600

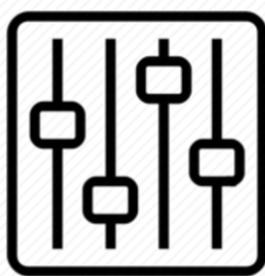
4)

HD600, DT150

5)

6)

10dB



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