

ELFO MK II

TRIODE – 6H30П-ДР

CLASS A

TRUE SINGLE ENDED

HIGH LEVEL PREAMPLIFIER

MINIMALIST DESIGN

PRECISION DUAL MONO

TEN (10) TURNS LEVEL ATTENUATOR

AGUSTIN SEIJAS LAB.

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ELFO MK II

TECHNICAL DATA:

FREQUENCY RESPONSE: 5HZ TO 200 KHZ - 3dB

T.H.D.: 0.05% MAX. (0 dBu REF.)

I.M.D.: 0.05% MAX. (0 dBu REF.)

MAX. OUTPUT: 35 VOLTS (R.M.S. - THD: 0.5%)

GAIN: 15 / 17.5 dB (FULL BANDWIDTH)

RISE TIME: 2 MICROSECONDS (10 KHZ REF.)

INPUT IMPEDANCE: 5,600 OHMS +/- 10% (1 KHZ REF.)

OUTPUT IMPEDANCE: 600 OHMS +/- 10% (1 KHZ REF.)

OUTPUT NOISE: 100 MICROVOLTS MAX. (R.M.S.)

ELECTRON TUBE: 2 X 6H30П-ДР (SELECTED)

OPERATIONAL LIFE: 10,000 HOURS

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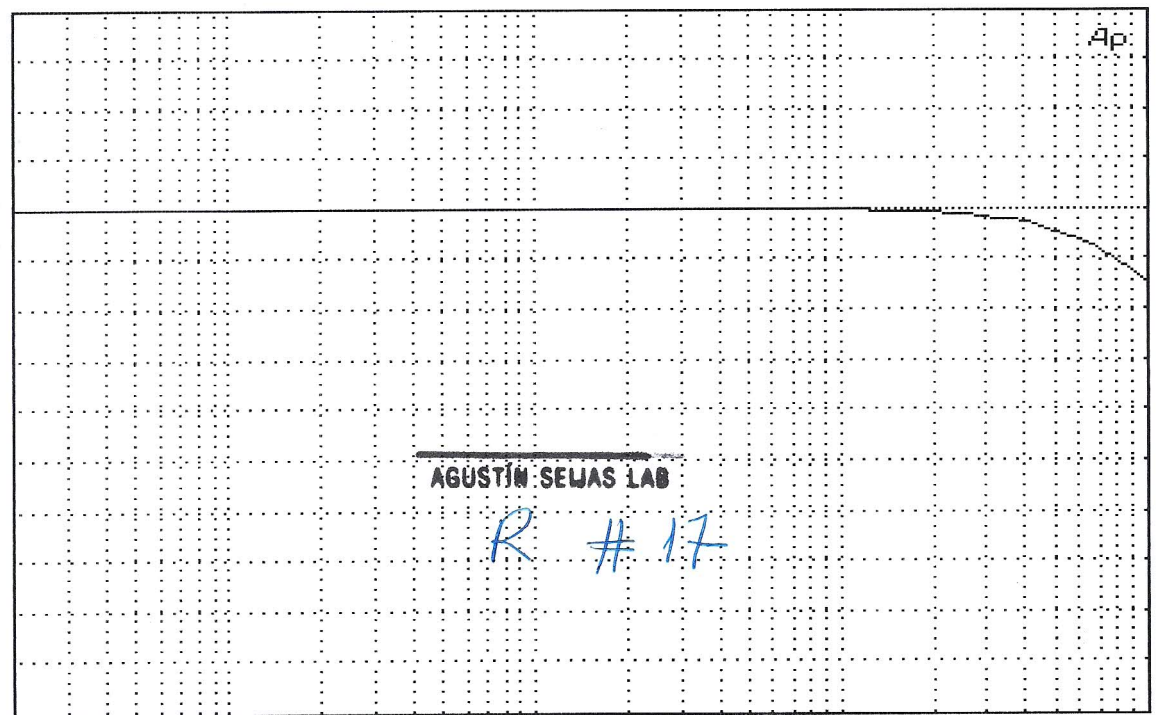
0 dBr=2.013 V

4.00 dBr

0 dBr

AMPL A

-10.00dBr

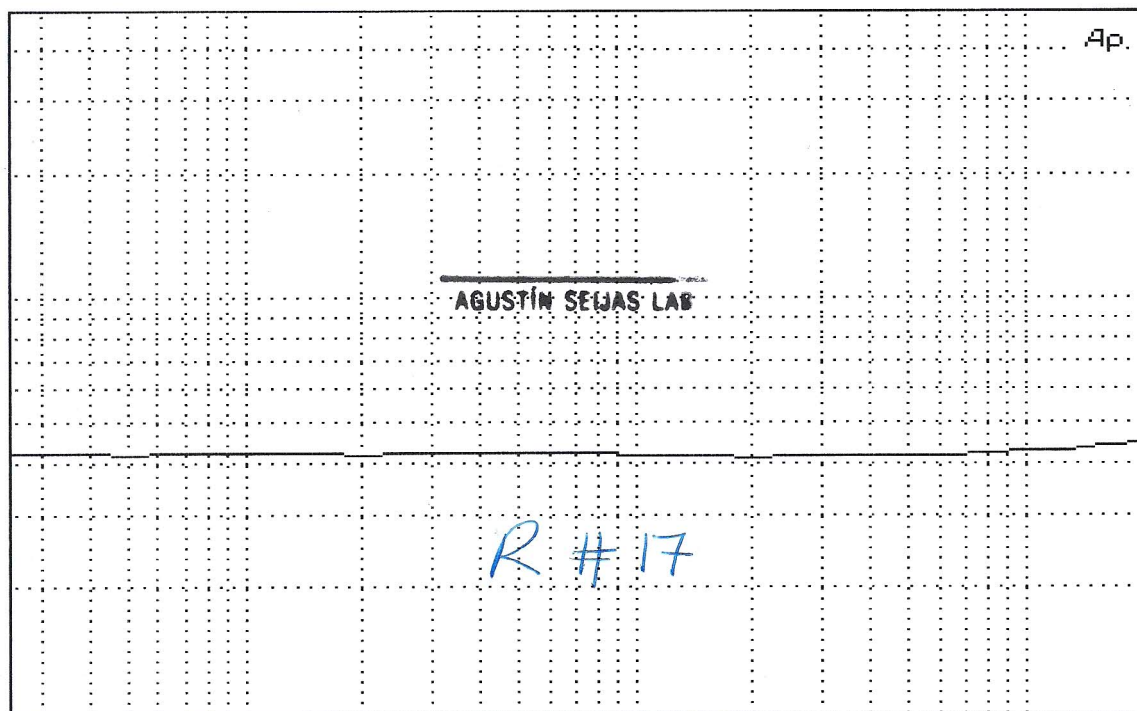


20.000 Hz LOG FREQUENCY 100.00kHz
SETTINGS(UN-WTD <10 Hz - >300 kHz GEN:SINE 333.3 mV)

GEN	FREQ	AMPL	A	GEN	FREQ	AMPL	A	GEN	FREQ	AMPL	A	Ap
20.00	Hz	-0.02	dBr	382.9	Hz	-0.01	dBr	7.330	kHz	-0.02	dBr	
22.40	Hz	-0.02	dBr	428.9	Hz	-0.01	dBr	8.212	kHz	-0.02	dBr	
25.09	Hz	-0.02	dBr	480.5	Hz	-0.01	dBr	9.199	kHz	-0.02	dBr	
28.11	Hz	-0.01	dBr	538.2	Hz	-0.01	dBr	10.305	kHz	-0.02	dBr	
31.49	Hz	-0.01	dBr	603.0	Hz	-0.01	dBr	11.544	kHz	-0.03	dBr	
35.28	Hz	-0.01	dBr	675.5	Hz	-0.01	dBr	12.933	kHz	-0.03	dBr	
39.52	Hz	-0.01	dBr	756.7	Hz	-0.01	dBr	14.488	kHz	-0.04	dBr	
44.27	Hz	-0.01	dBr	847.7	Hz	-0.01	dBr	16.230	kHz	-0.05	dBr	
49.60	Hz	-0.01	dBr	949.6	Hz	-0.01	dBr	18.181	kHz	-0.06	dBr	
55.56	Hz	-0.01	dBr	1.063	kHz	-0.01	dBr	20.367	kHz	-0.08	dBr	
62.24	Hz	-0.01	dBr	1.191	kHz	-0.01	dBr	22.816	kHz	-0.09	dBr	
69.73	Hz	-0.01	dBr	1.335	kHz	-0.01	dBr	25.559	kHz	-0.12	dBr	
78.11	Hz	-0.01	dBr	1.495	kHz	-0.01	dBr	28.633	kHz	-0.15	dBr	
87.51	Hz	-0.01	dBr	1.675	kHz	-0.01	dBr	32.076	kHz	-0.19	dBr	
98.03	Hz	-0.01	dBr	1.876	kHz	-0.01	dBr	35.932	kHz	-0.23	dBr	
109.8	Hz	-0.01	dBr	2.102	kHz	-0.01	dBr	40.253	kHz	-0.29	dBr	
123.0	Hz	-0.01	dBr	2.355	kHz	-0.01	dBr	45.093	kHz	-0.36	dBr	
137.8	Hz	-0.01	dBr	2.638	kHz	-0.01	dBr	50.515	kHz	-0.45	dBr	
154.3	Hz	-0.01	dBr	2.955	kHz	0.00	dBr	56.588	kHz	-0.55	dBr	
172.9	Hz	-0.01	dBr	3.311	kHz	0.00	dBr	63.392	kHz	-0.68	dBr	
193.7	Hz	-0.01	dBr	3.709	kHz	-0.01	dBr	71.015	kHz	-0.84	dBr	
217.0	Hz	-0.01	dBr	4.155	kHz	-0.01	dBr	79.553	kHz	-1.02	dBr	
243.1	Hz	-0.01	dBr	4.654	kHz	-0.01	dBr	89.118	kHz	-1.24	dBr	
272.3	Hz	-0.01	dBr	5.214	kHz	-0.01	dBr	100.00	kHz	-1.50	dBr	
305.1	Hz	-0.01	dBr	5.841	kHz	-0.01	dBr					
341.8	Hz	-0.01	dBr	6.543	kHz	-0.01	dBr					

0.500 %

LOG
THD+N A



0.0100%

25.000 Hz LOG FREQUENCY 20.000kHz
SETTINGS(AVERAGE <10 Hz - 80 kHz GEN:SINE 333.3 mV)

GEN	FREQ	THD+N	A	GEN	FREQ	THD+N	A	GEN	FREQ	THD+N	A	Ap
25.00	Hz	0.0421%		315.0	Hz	0.0421%		4.000	kHz	0.0414%		
31.50	Hz	0.0421%		400.0	Hz	0.0420%		5.000	kHz	0.0416%		
40.00	Hz	0.0420%		500.0	Hz	0.0420%		6.300	kHz	0.0418%		
50.00	Hz	0.0414%		630.0	Hz	0.0420%		8.000	kHz	0.0420%		
63.00	Hz	0.0422%		800.0	Hz	0.0419%		10.000	kHz	0.0424%		
80.00	Hz	0.0421%		1.000	kHz	0.0417%		12.500	kHz	0.0429%		
100.0	Hz	0.0419%		1.250	kHz	0.0416%		16.000	kHz	0.0437%		
125.0	Hz	0.0422%		1.600	kHz	0.0414%		20.000	kHz	0.0447%		
160.0	Hz	0.0421%		2.000	kHz	0.0412%						
200.0	Hz	0.0418%		2.500	kHz	0.0414%						
250.0	Hz	0.0421%		3.150	kHz	0.0413%						

IMD A LEVEL A
0.134 % 6.60 dBu

GEN:IMD 333.3 mV 70Hz/7kHz Ap

RATIO A/G
15.65dB

FREQ GA
997.38 Hz

GEN:SINE 333.3 mV 1.000 kHz

Ap

NOISE A
35.65 uV

UN-WTD 22 Hz - 22 kHz
GEN:SINE 333.3 mV 1.000 kHz

Ap

NOISE A
26.23 uV

UN-WTD 400 Hz - 22 kHz
GEN:SINE 333.3 mV 1.000 kHz

Ap

R#17

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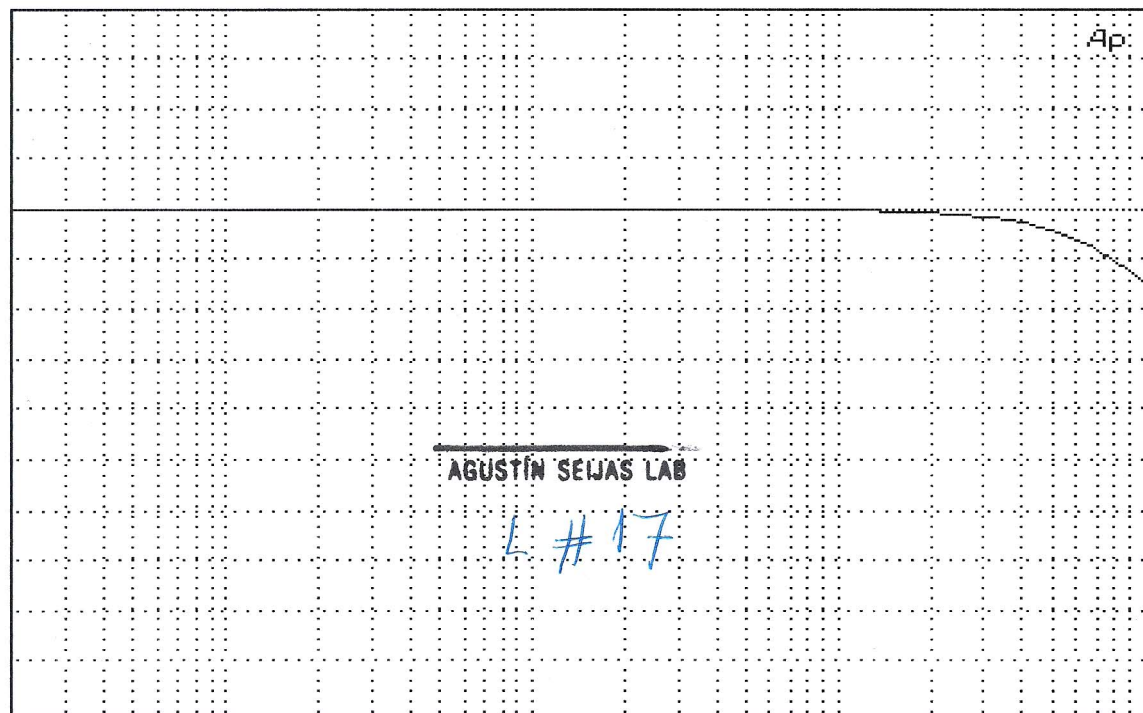
0 dBr=2.005 V

4.00 dBr

0 dBr

AMPL A

-10.00dBr



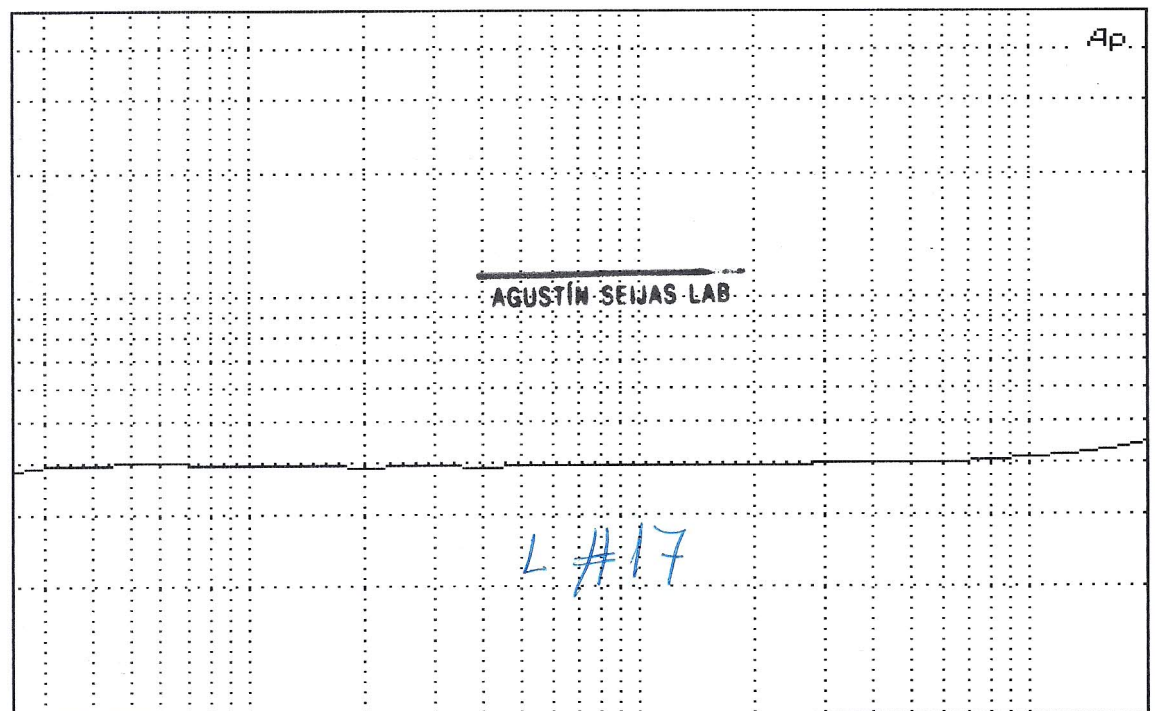
20.000 Hz LOG FREQUENCY 100.00kHz
SETTINGS (UN-WTD <10 Hz - >300 kHz GEN:SINE 333.3 mV)

GEN	FREQ	AMPL	A	GEN	FREQ	AMPL	A	GEN	FREQ	AMPL	A	Ap
20.00	Hz	-0.02	dBr	382.9	Hz	0.00	dBr	7.330	kHz	-0.01	dBr	
22.40	Hz	-0.01	dBr	428.9	Hz	0.00	dBr	8.212	kHz	-0.02	dBr	
25.09	Hz	-0.01	dBr	480.5	Hz	0.00	dBr	9.199	kHz	-0.02	dBr	
28.11	Hz	-0.01	dBr	538.2	Hz	0.00	dBr	10.305	kHz	-0.02	dBr	
31.49	Hz	-0.01	dBr	603.0	Hz	0.00	dBr	11.544	kHz	-0.02	dBr	
35.28	Hz	-0.01	dBr	675.5	Hz	0.00	dBr	12.933	kHz	-0.03	dBr	
39.52	Hz	-0.01	dBr	756.7	Hz	0.00	dBr	14.488	kHz	-0.04	dBr	
44.27	Hz	-0.01	dBr	847.7	Hz	0.00	dBr	16.230	kHz	-0.05	dBr	
49.60	Hz	-0.01	dBr	949.6	Hz	0.00	dBr	18.181	kHz	-0.06	dBr	
55.56	Hz	-0.01	dBr	1.063	kHz	0.00	dBr	20.367	kHz	-0.07	dBr	
62.24	Hz	-0.01	dBr	1.191	kHz	0.00	dBr	22.816	kHz	-0.09	dBr	
69.73	Hz	-0.01	dBr	1.335	kHz	0.00	dBr	25.559	kHz	-0.11	dBr	
78.11	Hz	-0.01	dBr	1.495	kHz	0.00	dBr	28.633	kHz	-0.14	dBr	
87.51	Hz	-0.01	dBr	1.675	kHz	0.00	dBr	32.076	kHz	-0.18	dBr	
98.03	Hz	-0.01	dBr	1.876	kHz	0.00	dBr	35.932	kHz	-0.23	dBr	
109.8	Hz	-0.01	dBr	2.102	kHz	0.00	dBr	40.253	kHz	-0.28	dBr	
123.0	Hz	-0.01	dBr	2.355	kHz	0.00	dBr	45.093	kHz	-0.35	dBr	
137.8	Hz	0.00	dBr	2.638	kHz	0.00	dBr	50.515	kHz	-0.44	dBr	
154.3	Hz	0.00	dBr	2.955	kHz	0.00	dBr	56.588	kHz	-0.55	dBr	
172.9	Hz	0.00	dBr	3.311	kHz	0.00	dBr	63.392	kHz	-0.67	dBr	
193.7	Hz	0.00	dBr	3.709	kHz	0.00	dBr	71.015	kHz	-0.83	dBr	
217.0	Hz	0.00	dBr	4.155	kHz	0.00	dBr	79.553	kHz	-1.01	dBr	
243.1	Hz	0.00	dBr	4.654	kHz	0.00	dBr	89.118	kHz	-1.23	dBr	
272.3	Hz	0.00	dBr	5.214	kHz	0.00	dBr	100.00	kHz	-1.49	dBr	
305.1	Hz	0.00	dBr	5.841	kHz	-0.01	dBr					
341.8	Hz	0.00	dBr	6.543	kHz	-0.01	dBr					

0.500 %

LOG
THD+N A

0.0100%



25.000 Hz LOG FREQUENCY 20.000kHz
SETTINGS (AVERAGE <10 Hz - 80 kHz GEN:SINE 333.3 mV)

GEN FREQ	THD+N	A	GEN FREQ	THD+N	A	GEN FREQ	THD+N	A	Ap
25.00 Hz	0.0383%		315.0 Hz	0.0390%		4.000 kHz	0.0396%		
31.50 Hz	0.0395%		400.0 Hz	0.0389%		5.000 kHz	0.0396%		
40.00 Hz	0.0393%		500.0 Hz	0.0390%		6.300 kHz	0.0398%		
50.00 Hz	0.0400%		630.0 Hz	0.0390%		8.000 kHz	0.0401%		
63.00 Hz	0.0395%		800.0 Hz	0.0390%		10.000kHz	0.0407%		
80.00 Hz	0.0394%		1.000 kHz	0.0390%		12.500kHz	0.0414%		
100.0 Hz	0.0391%		1.250 kHz	0.0391%		16.000kHz	0.0428%		
125.0 Hz	0.0392%		1.600 kHz	0.0391%		20.000kHz	0.0445%		
160.0 Hz	0.0391%		2.000 kHz	0.0392%					
200.0 Hz	0.0389%		2.500 kHz	0.0394%					
250.0 Hz	0.0391%		3.150 kHz	0.0396%					

IMD A LEVEL A
0.131 % 6.55 dBu

GEN:IMD 333.3 mV 70Hz/7kHz

Ap

RATIO A/G
15.61dB

FREQ GA
997.42 Hz

GEN:SINE 333.3 mV 1.000 kHz

Ap

NOISE A
37.34 uV

UN-WTD 22 Hz - 22 kHz
GEN:SINE 333.3 mV 1.000 kHz

Ap

NOISE A
26.22 uV

UN-WTD 400 Hz - 22 kHz
GEN:SINE 333.3 mV 1.000 kHz

Ap

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L #17

GUARANTEE:

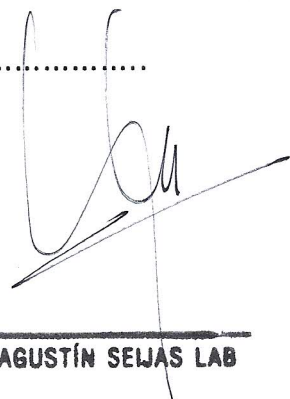
THIS EQUIPMENT IS GUARANTEED AGAINST ANY DEFECT
IN MATERIAL OR WORKMANSHIP FOR A PERIOD OF FIVE
(5) YEARS FROM DATE OF PURCHASE.

ELECTRON TUBES: ONE (1) YEAR OF GUARANTEE.

SPARE PARTS AVAILABILITY: TEN (10) YEARS.

NUMBER: ELFO II # 17

DATE:



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