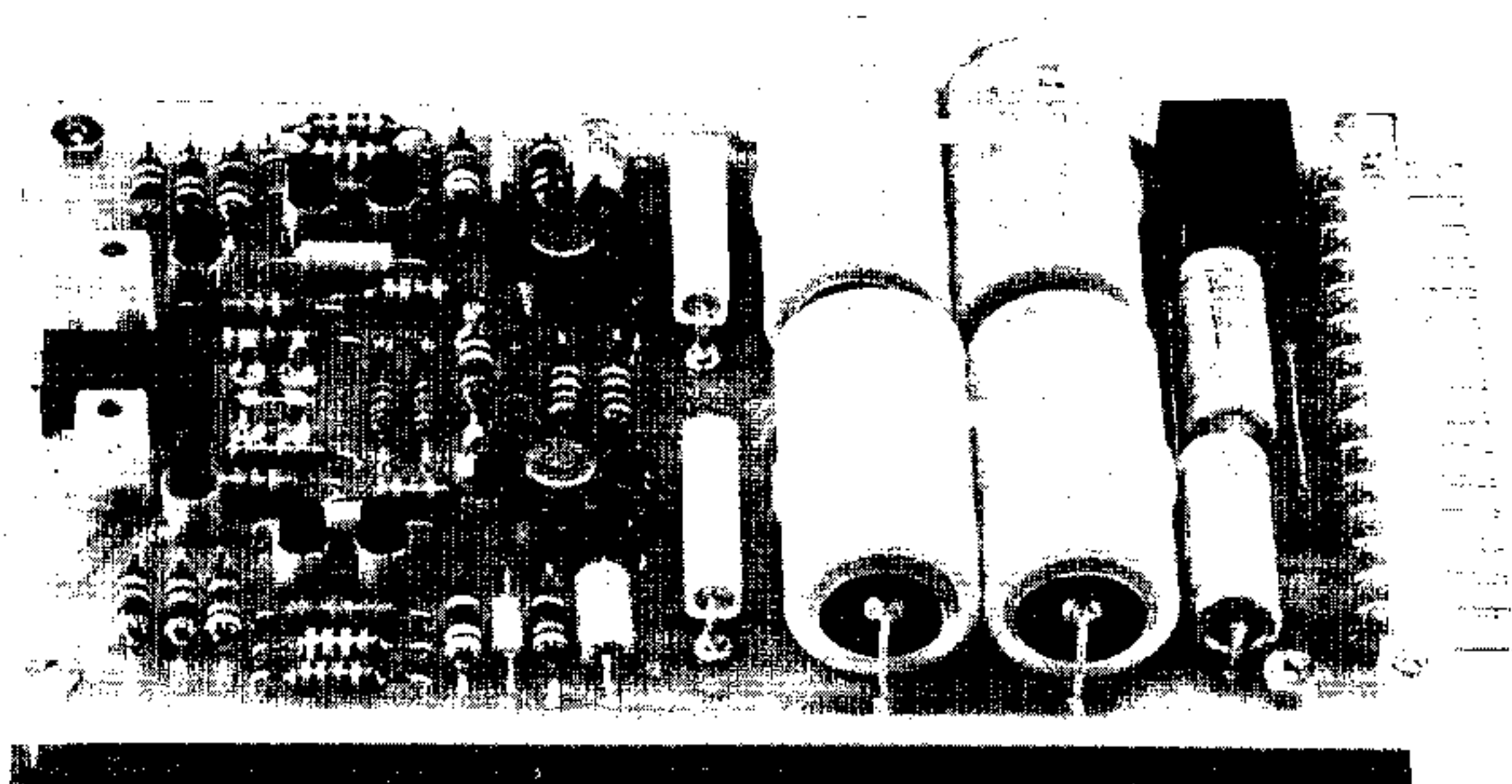




Met dank aan A.R.A. van Rossum

n.v. delta elektronika

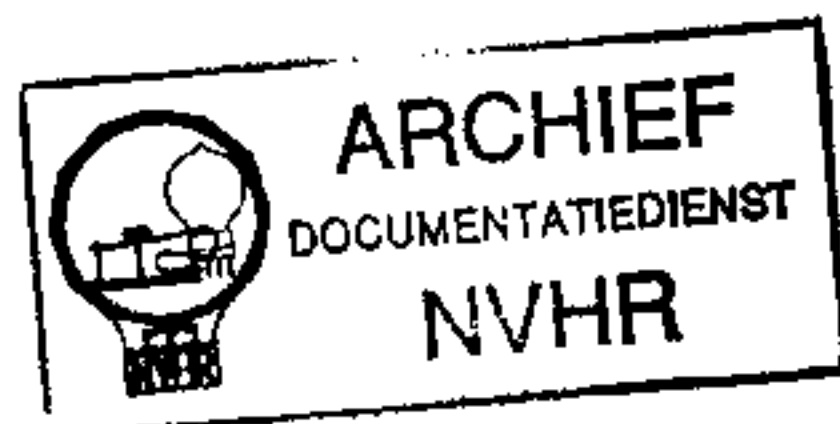
nieuwe boogerdstraat 2 zierikzee holland telefoon (01110) 2734



Ned. Ver. v. Historie v/d Radio

REGULATED POWER SUPPLY C 15-1 D

+ 15 V and - 15 V, 1 A
or + 12 V and - 12 V, 1 A



Input voltage

37 V AC with center tap for + and - 15 V
32 V AC with center tap for + and - 12 V

Output voltages

The output voltages can easily be changed from + and - 15 V to + and - 12 V by soldering a link between two turret lugs on the circuit board. The adjustability of the positive and negative voltage is about 10 %.

Output current

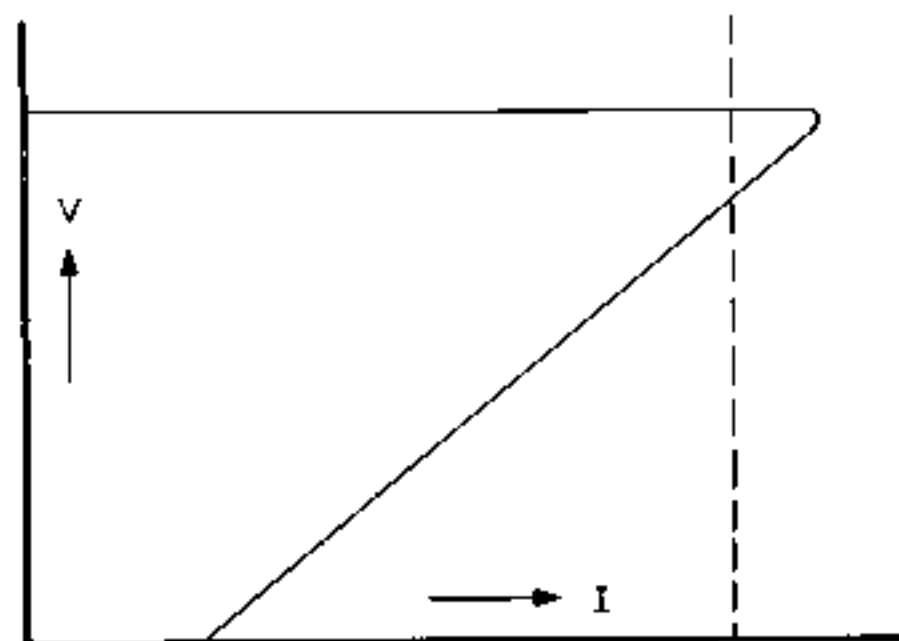
Both outputs may be loaded independently up to 1 A.

Current limit

On overload the current falls to a safe value.

If one output is overloaded, both will decrease.

Voltages return immediately after removal of overload condition.



Voltage regulation

5 mV for a + or - 10 % AC input voltage variation.
10 mV for a maximum load change.

Temp. coefficient

0.03 % per °C maximum.

Ripple and noise

Maximum 0.1 mV r.m.s. or 0.5 mV peak to peak on the positive and on the negative output voltage.

Output impedance

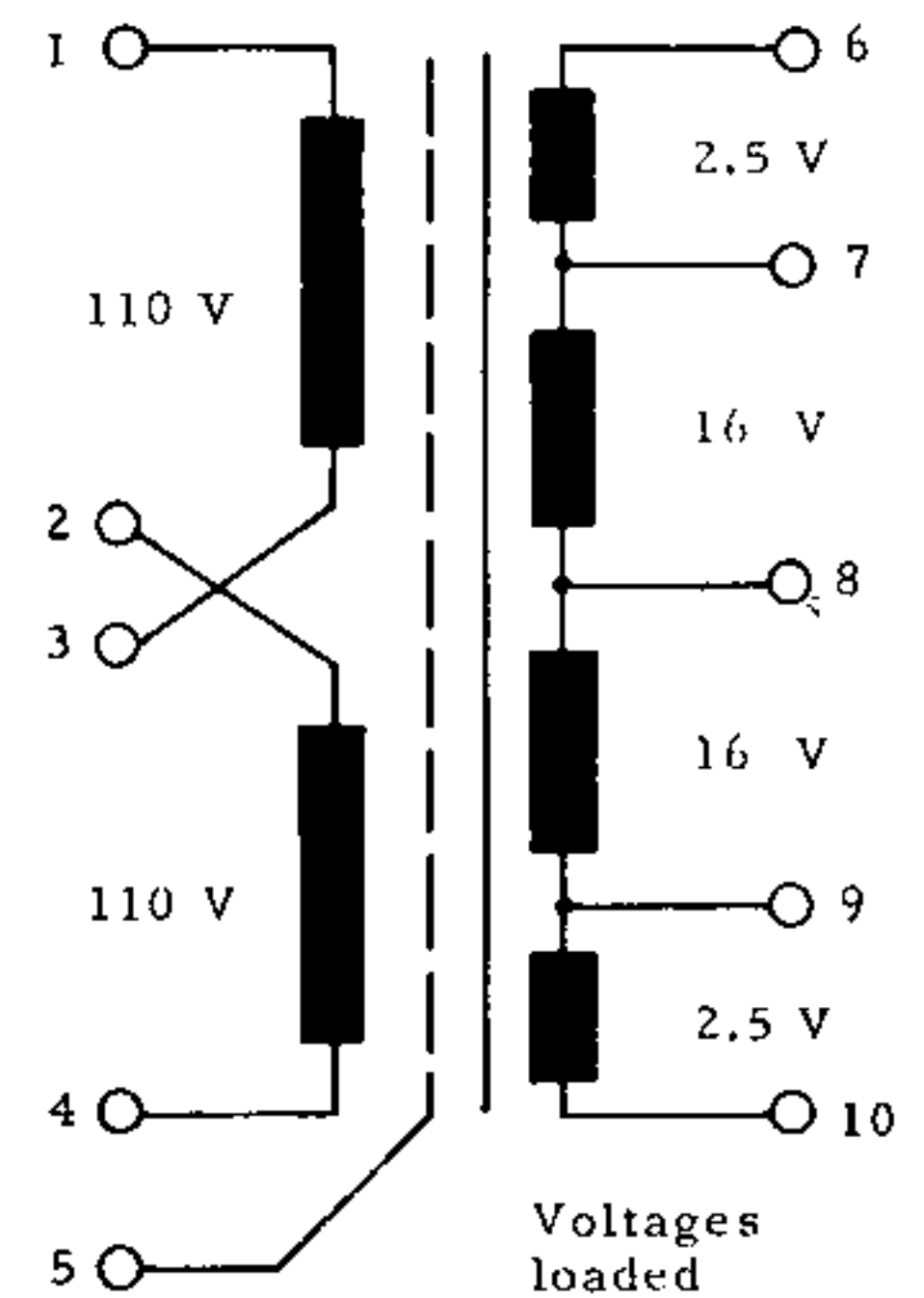
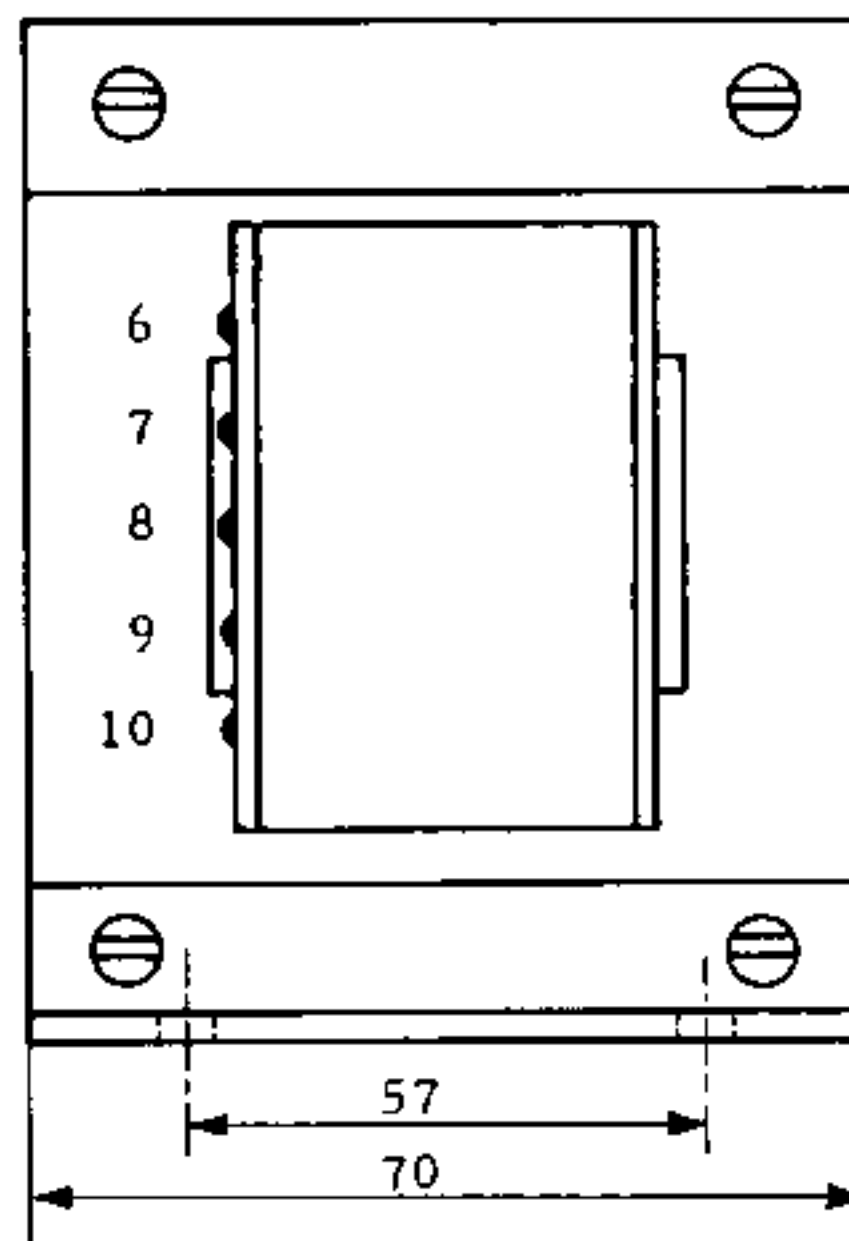
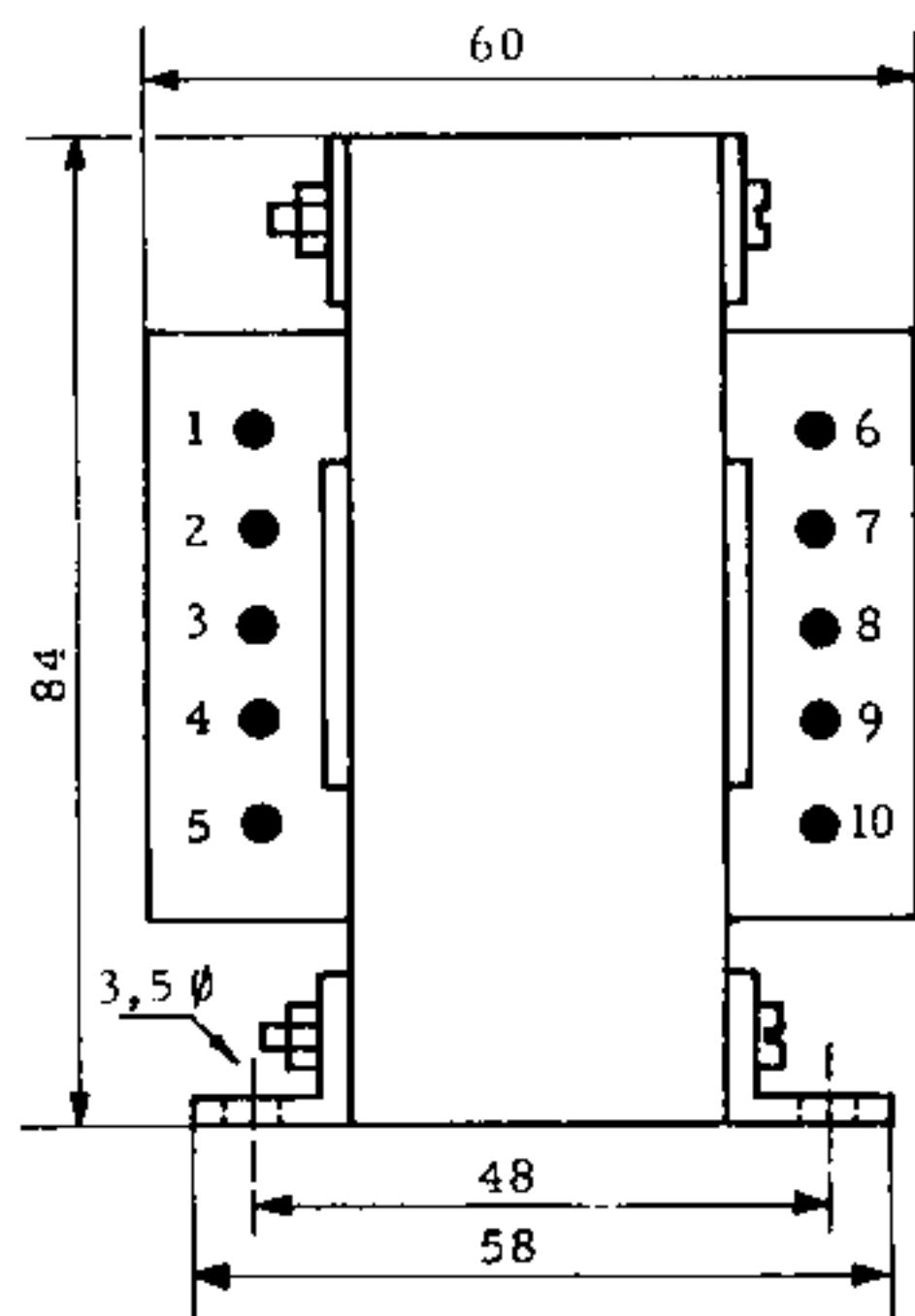
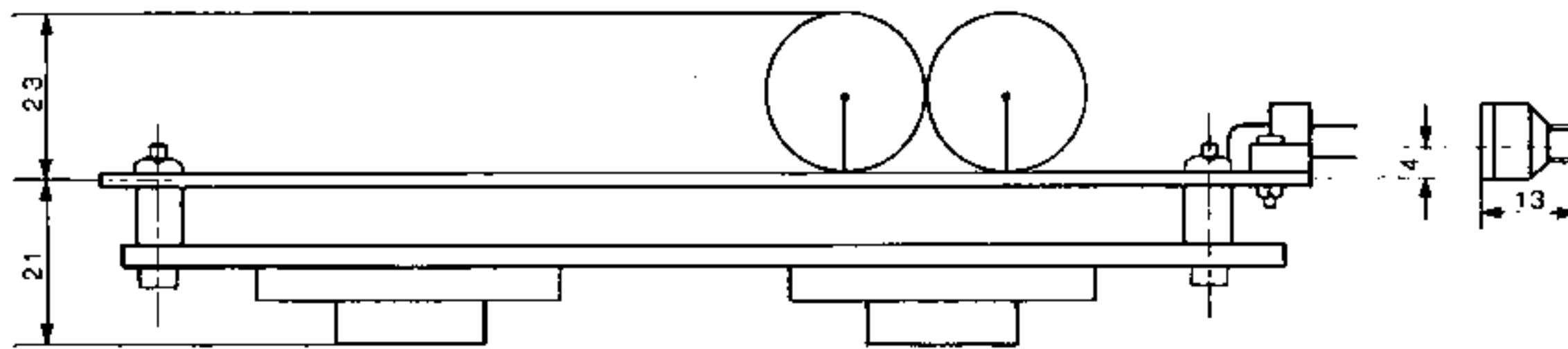
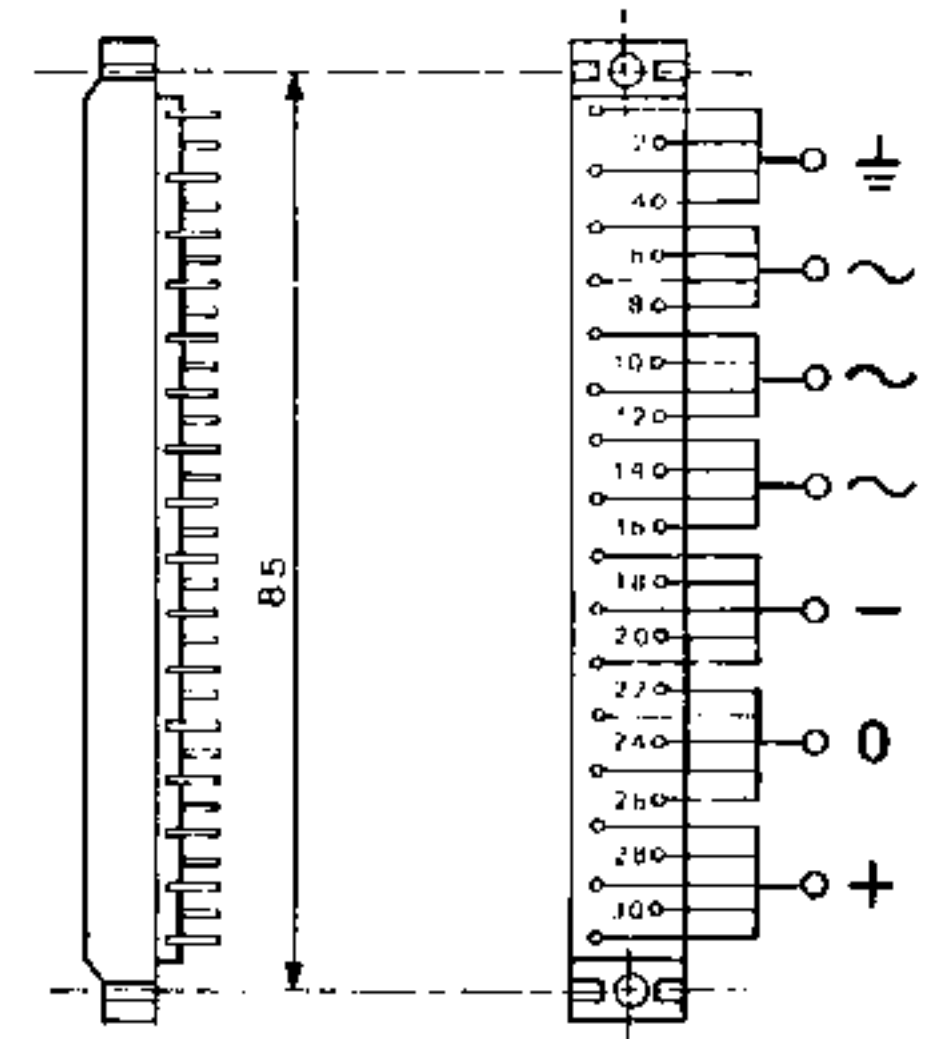
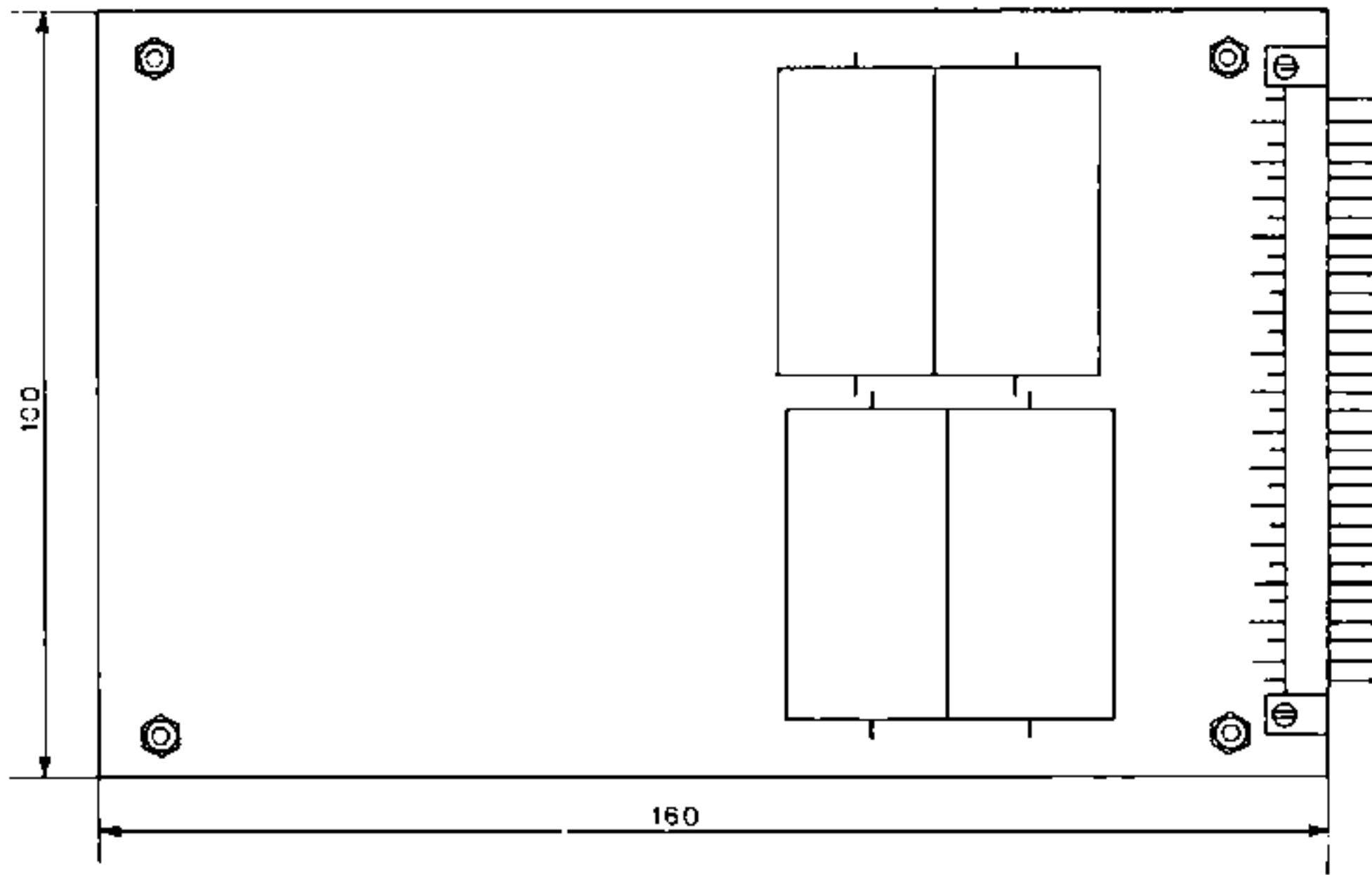
Maximum 100 milli-ohms for load variations up to 100 kHz.

Recovery time

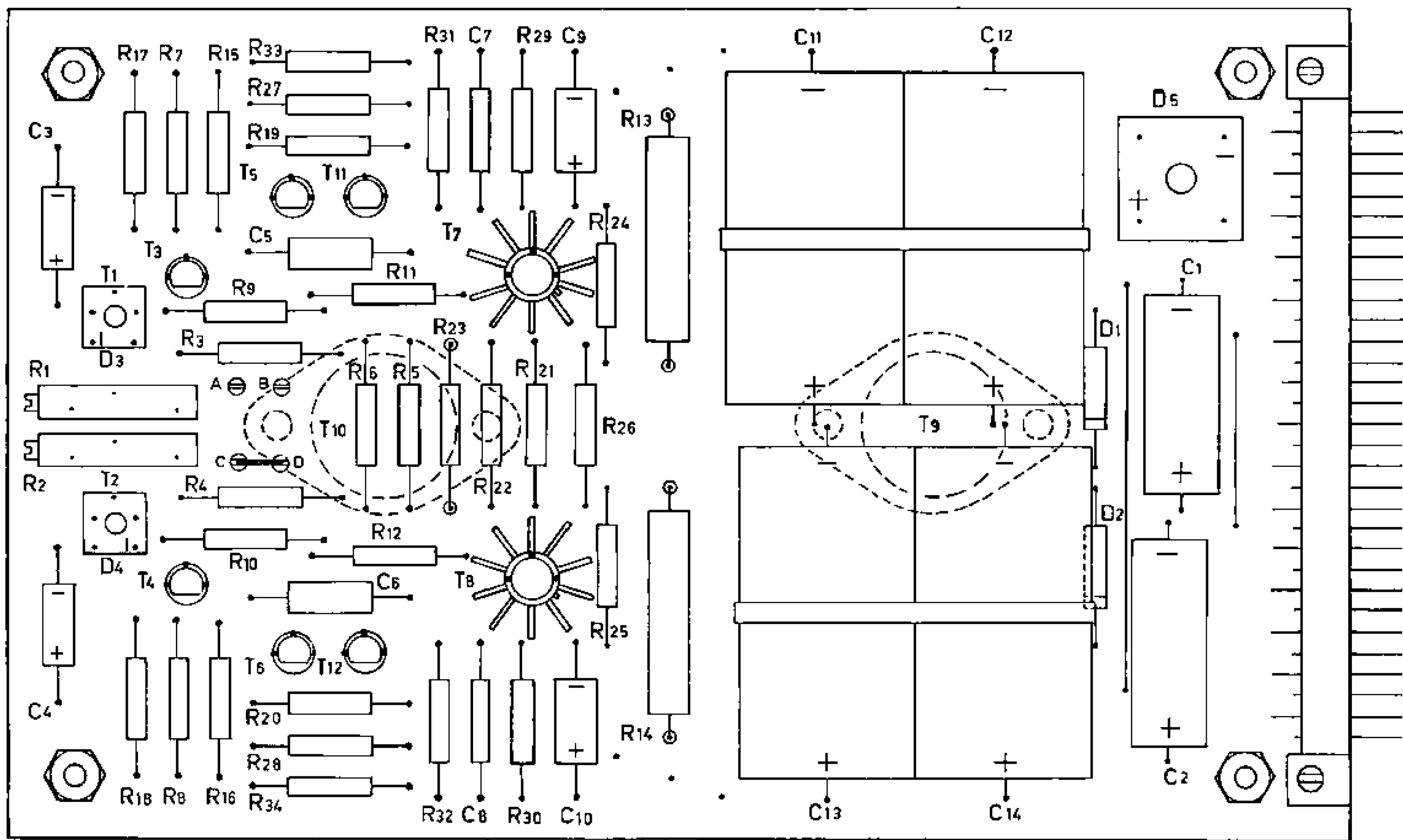
10 micro-sec. for recovery to within 30 mV of steady state voltage, after a step load change from 10 % to 100 %.

Ambient temp.

- 20 to + 50 °C at full load and nominal input voltage.

Dimensions and weight100 x 160 x 45 mm
0.4 kgs

Transformer T 151 D for power supply C 15-1 D



R 1 = negative voltage adjustment

R 2 = positive voltage adjustment

For + and - 12 V output: Remove connection C-D and connect A-B.
Input voltage 32 V AC with center tap
(7-8-9 on T 151 D)

For + and - 15 V output: Remove connection A-B and connect C-D.
Input voltage 37 V AC with center tap
(6-8-10 on T 151 D)

R (Ohm)

1 = 200	var.	26 = 6.8 k
2 = 200	var.	27 = 47 k
3 = 470	MF	28 = 47 k
4 = 470	MF	29 = 47
5 = CR	MF	30 = 47
6 = CR	MF	31 = 390
7 = 1 k		32 = 39
8 = 1 k		33 = 680
9 = 1.5 k		34 = 680
10 = 1.5 k		
11 = 680		
12 = 680		
13 = 1.8	WW	
14 = 1.8	WW	
15 = 47		
16 = 47		
17 = 1 k		
18 = 1 k		
19 = 1 k	MF	
20 = 1 k	MF	
21 = 82 k		
22 = 22 k	MF	
23 = CR		
24 = 2.7 k		
25 = 2.7 k		

T

1 = BC 212	TI
2 = BC 182	TI
3 = BC 212	TI
4 = BC 182	TI
5 = BC 212	TI
6 = BC 182	TI
7 = 2N3053	RCA
8 = 2N4037	RCA
9 = 2N3055	RCA
10 = 2N4901	Motorola
11 = BC 182	TI
12 = BC 212	TI

C (microfarad)

1 = 250	25 V
2 = 250	25 V
3 = 10	35 V
4 = 10	35 V
5 = 0.047	250 V
6 = 0.047	250 V
7 = 0.0033	250 V
8 = 0.01	250 V
9 = 25	15 V
10 = 25	15 V
11 = 1000	35 V
12 = 1000	35 V
13 = 1000	35 V
14 = 1000	35 V

D

1 = TS 1	DI
2 = TS 1	DI
3 = ZP 6.2	ITT
4 = ZP 6.2	ITT
5 = W 613	Varo

CR = Calibration resistor

MF = Metalfilm resistor 1/2 W 2 %

WW = Wire wound resistor 5 W 5 %

All other resistors carbon 1/2W 5 %

