

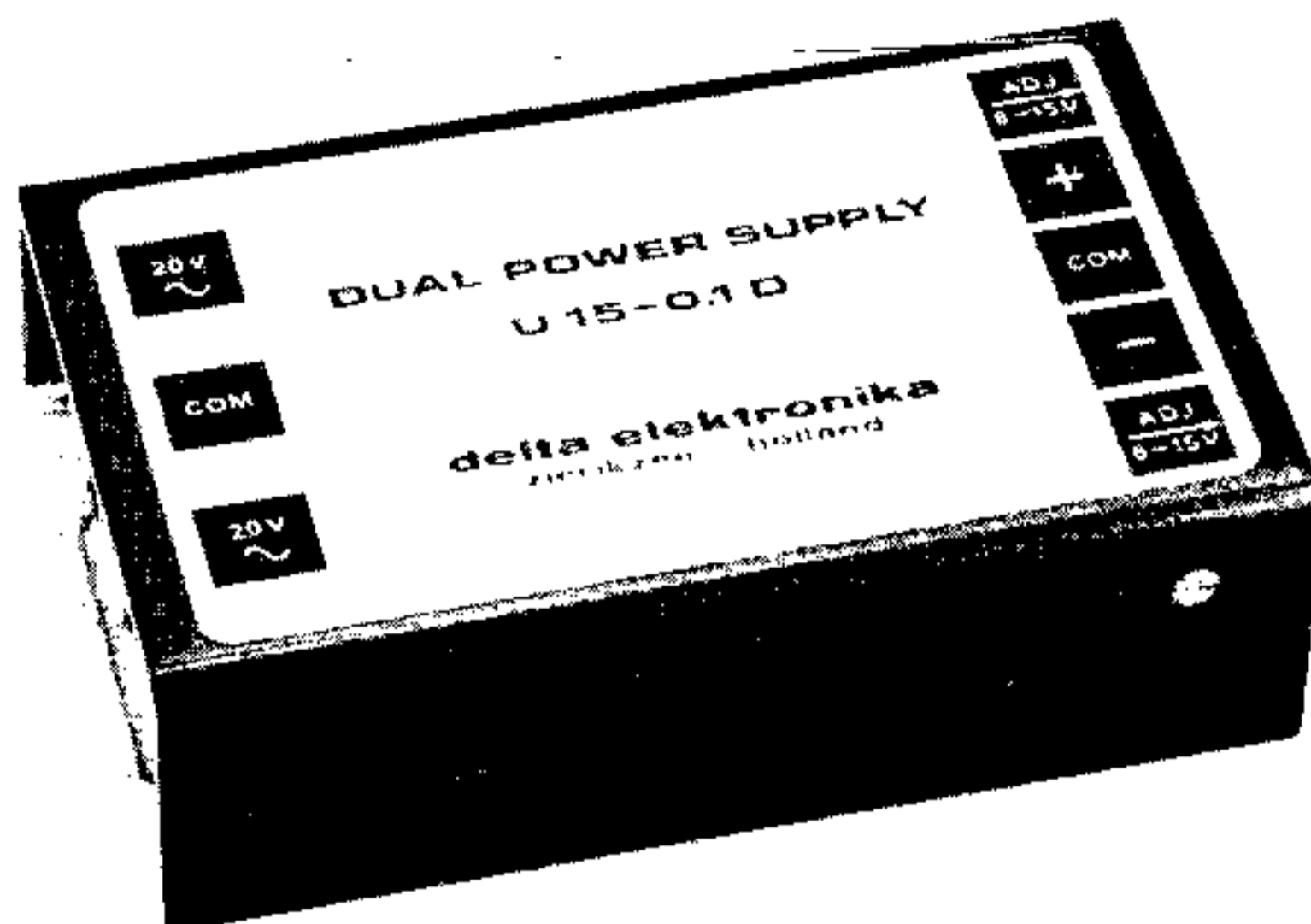
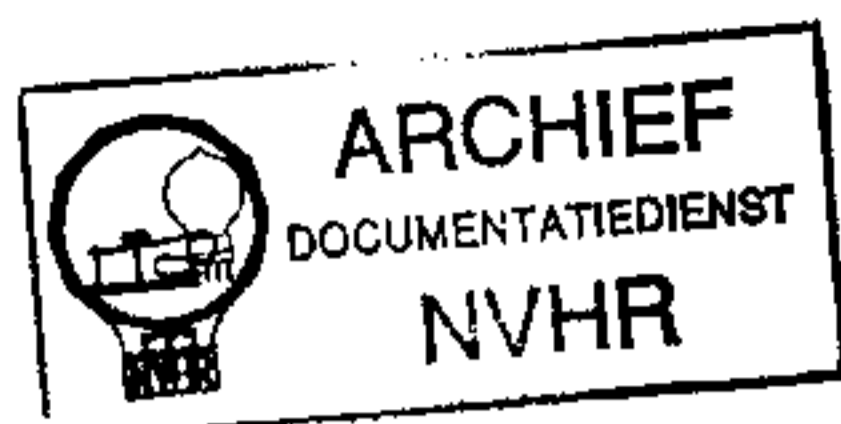
Met dank aan A.R.A. van Rossum

NV DELTA ELEKTRONIKA

Ned. Ver. v. Historie v/d Radio



P.O. BOX 27
ZIERIKZEE
NETHERLANDS
TELEPHONE (01110) 2734



DUAL POWER SUPPLY U 15-0.1 D

+ 8 to + 15 V, 0.1 A
- 6 to - 15 V, 0.1 A

General

Power supply U 15-0.1 D, for powering operational amplifiers, provides output voltages which are independently adjustable over a wide range with two 20-turn wire wound potentiometers. It can be used with op amps requiring ± 15 V, ± 12 V, + 12 and - 6 V or other voltages.

Input voltage

2 x 20 V AC (40 V with a center tap).
Transformer T 15-0.1 D is available to supply this voltage.

Output voltage

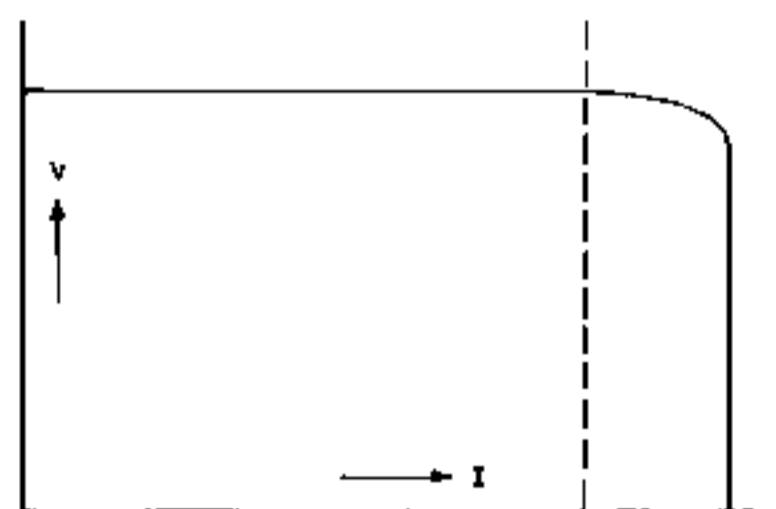
Positive : adjustable + 8 to + 15 V DC
Negative : adjustable - 6 to - 15 V DC
Or single output 14 to 30 V DC

Output current

Maximum 0.1 A for each output voltage or for the sum.

Current limit

Constant current overload protection.
Short circuit current max. 140 mA.



Voltage regulation

Each section:
5 mV for a + or - 10 % AC input voltage variation.
8 mV for a maximum load variation.

Temp. coefficient

0.03 % per °C maximum.

Ripple

0.1 mV r.m.s. or 0.5 mV p-p maximum.

Output impedance

Maximum 200 milli-ohms for load variations up to 100 kHz.

Recovery time

3 micro-seconds for recovery to within 30 mV after a step load change from 10 % to 100 %.

Ambient temp.

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

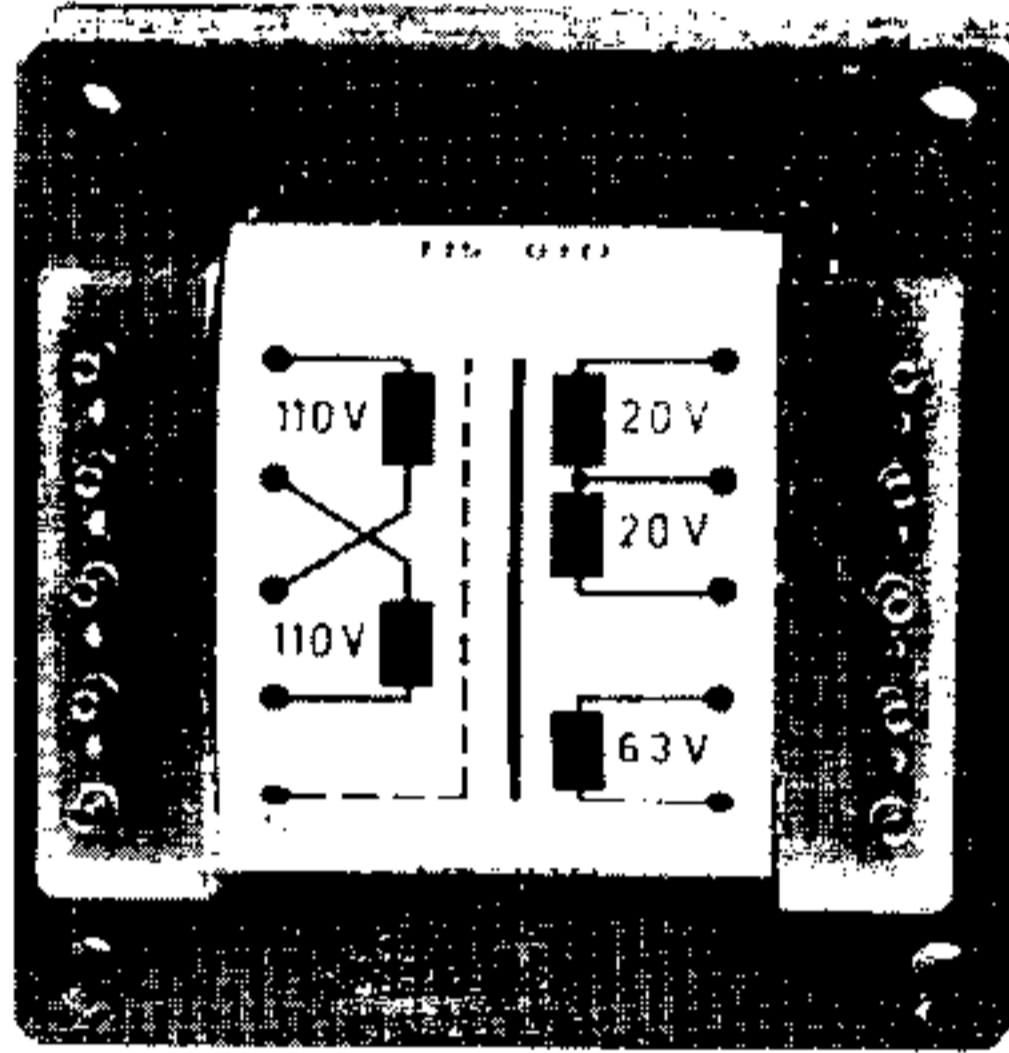
Mounting

The unit can be soldered to a printed circuit board or screwed with two M3 screws.

Weight and dim.

0.13 kgs 95 x 60 x 28 mm.

**TRANSFORMER
T 15-0.1 D**



Input voltage

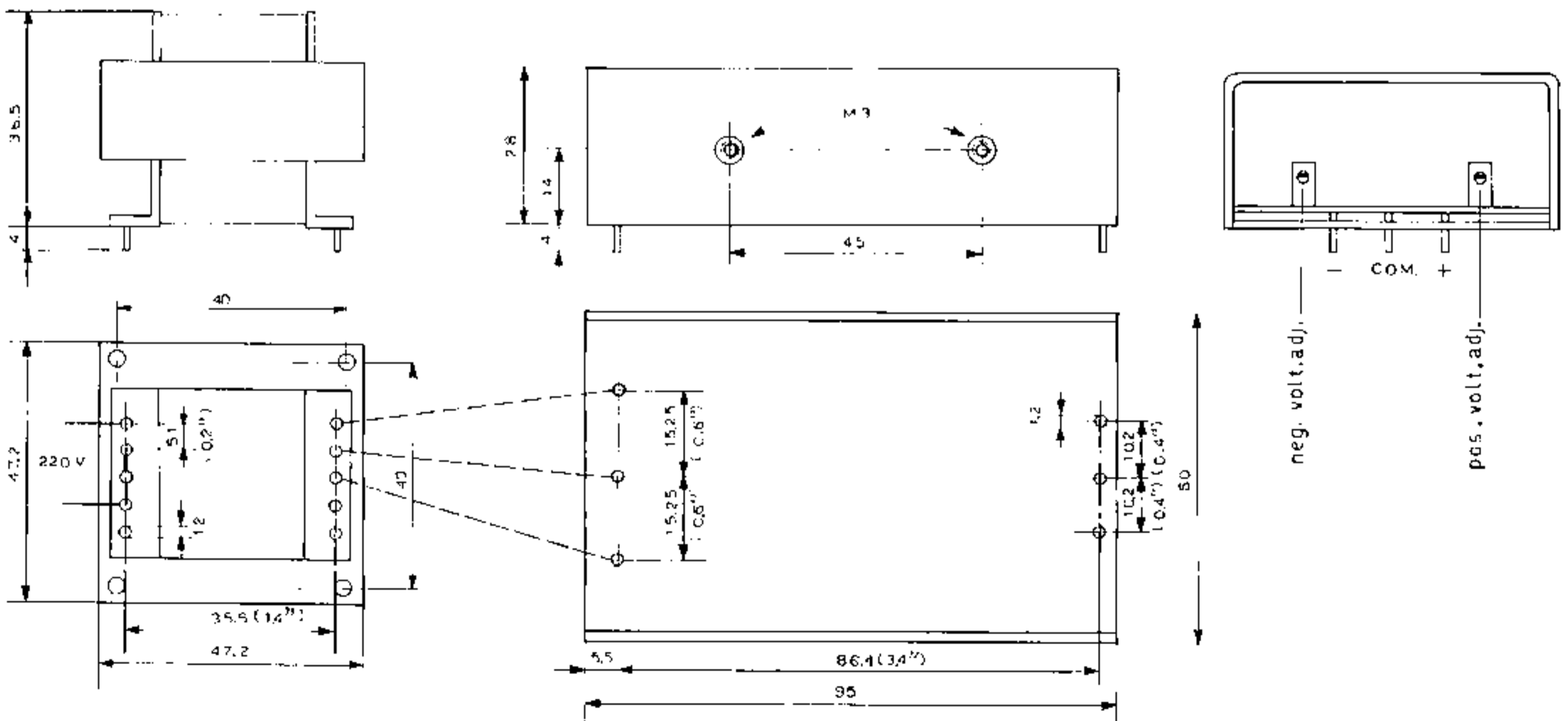
220 V, 50-60 Hz (primary windings in series).
110 V, 50-60 Hz (primary windings parallel).

Output voltages

2 x 20 V AC 0.14 A
6.3 V AC 0.1 A

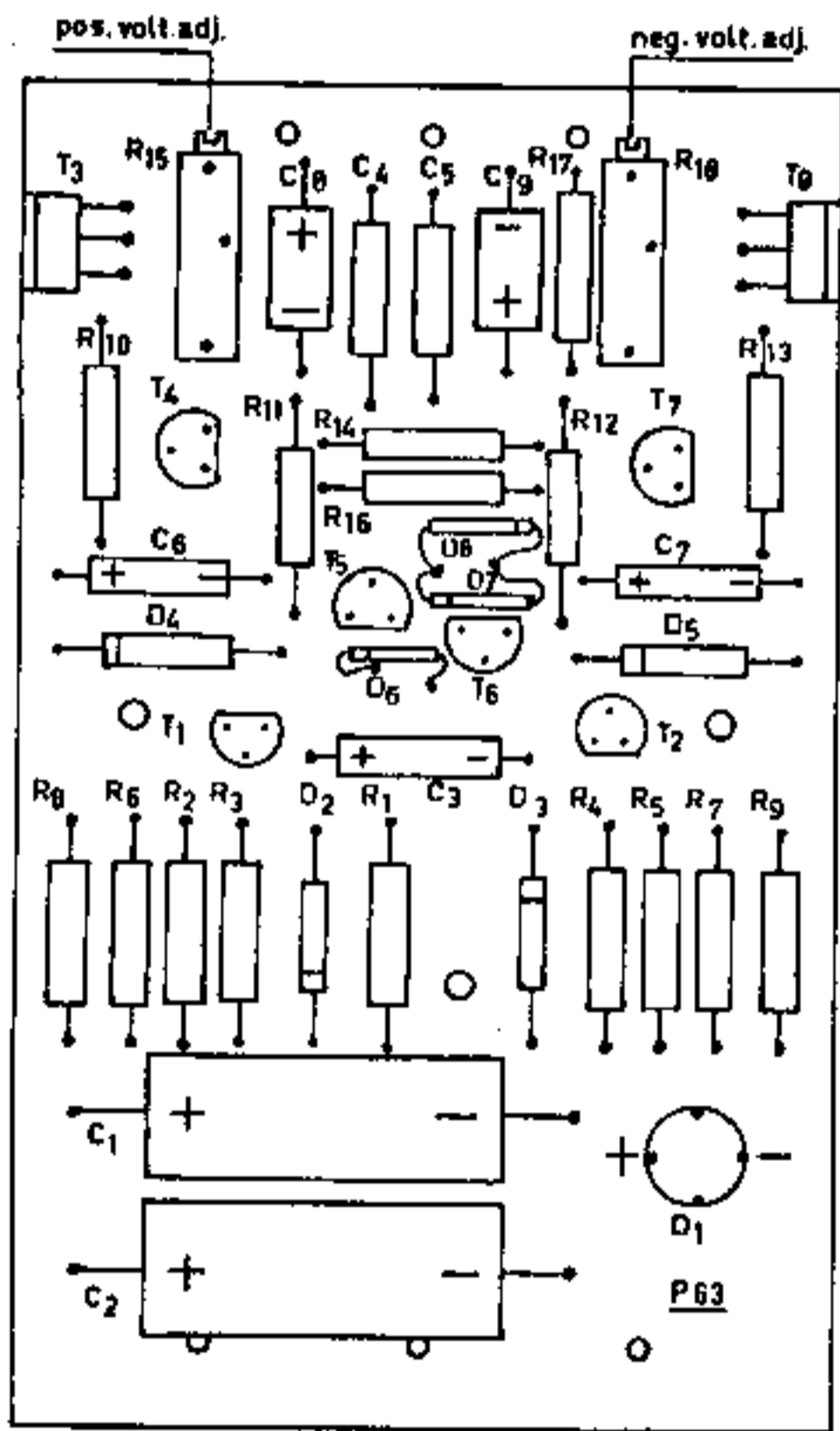
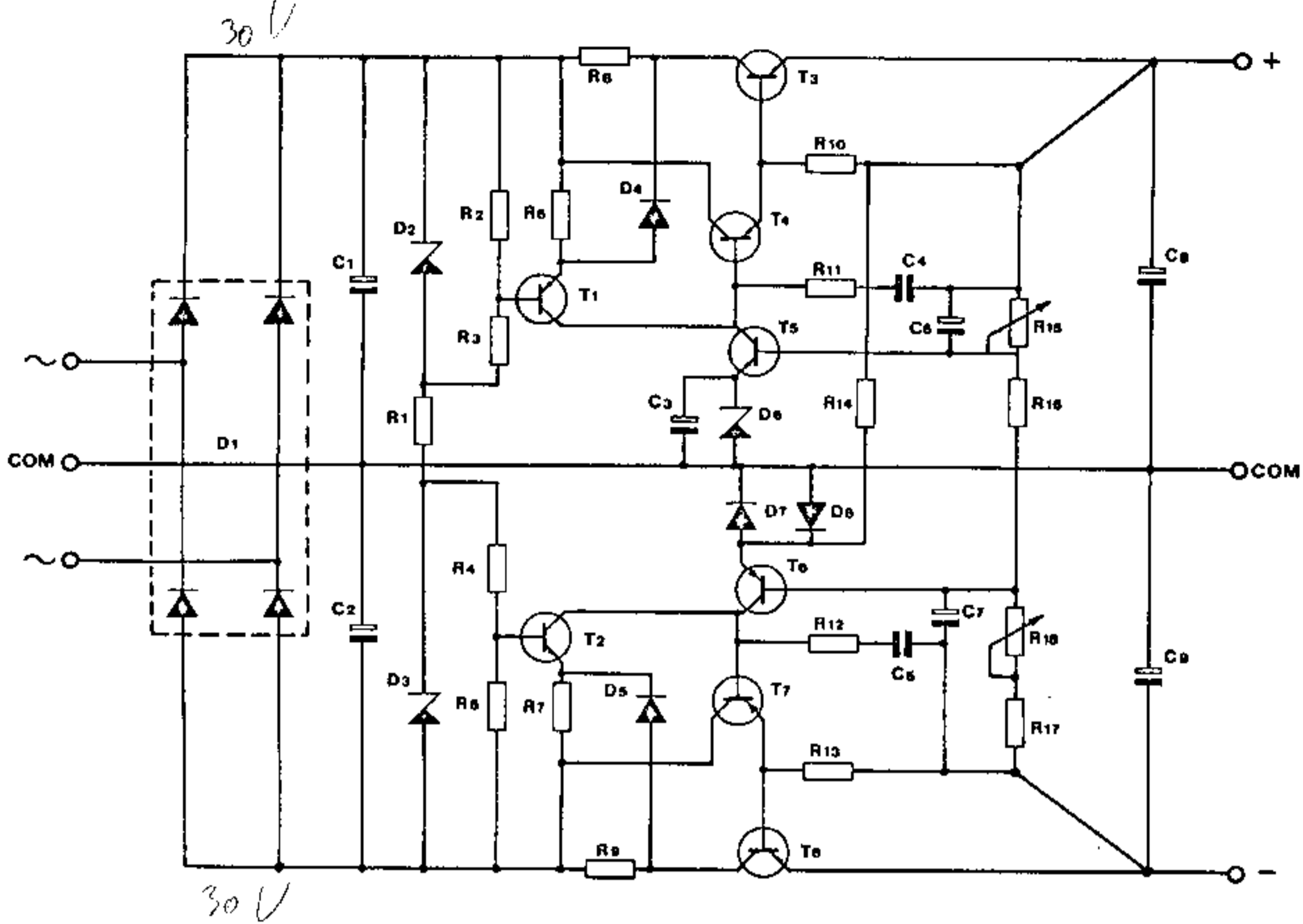
Weight and dim.

0.25 kgs 47.2 x 47.2 x 36.5 mm.



T 15-0.1 D

U 15-0.1 D



- D
- 1 = W005 G. I.
 - 2 = ZP 6,8 (6,5 V) ITT
 - 3 = ZP 6,8 (6,5 V) ITT
 - 4 = 1N4148 ITT
 - 5 = 1N4148 ITT
 - 6 = ZP 6,2 (6,3 V) ITT
 - 7 = 1N4148 ITT
 - 8 = 1N4148 ITT

R (Ohm)

- 1 = 6,8 k
- 2 = 3,3 k
- 3 = 3,3 k
- 4 = 3,3 k
- 5 = 3,3 k
- 6 = 820
- 7 = 1,2 k
- 8 = 27
- 9 = 27
- 10 = 1 k
- 11 = 10 k
- 12 = 10 k
- 13 = 1 k
- 14 = 2,2 k
- 15 = 5 k var.
- 16 = 3,3 k
- 17 = 2,7 k
- 18 = 5 k var.

C (microfarad)

- 1 = 220 35 V
- 2 = 220 35 V
- 3 = 2,2 63 V
- 4 = 0,01 250 V
- 5 = 0,01 250 V
- 6 = 2,2 63 V
- 7 = 2,2 63 V
- 8 = 10 35 V
- 9 = 10 35 V

T

- 1 = BC 212 TI
- 2 = BC 182 TI
- 3 = TIP 29 A TI
- 4 = BC 182 TI
- 5 = BC 182 TI
- 6 = BC 212 TI
- 7 = BC 212 TI
- 8 = TIP 30 A TI

Resistors $\frac{1}{2}$ W 2% metal film

2 N 2212