

Attention!

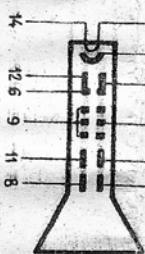
Outer metal parts of the devices designed for operation in countries of tropical climate are covered with vaseline for protection against corrosion. Before putting these devices into operation it is necessary to take that vaseline layer away.

CATHODE-RAY TUBE

JAOI4

JAOI4 is a cathode-ray tube with electrostatic focusing and deflection having a screen with green fluorescence and mean persistence designed for visual recording of electrical processes in different radiotechnical devices.

Pin Nos	Electrodes
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I	Heater
2	Cathode
3	Grid # I
4	Anode # I
5	Not connected
6	Grid # I (support)
7	Horizontal deflection plate X ₁
8	Horizontal deflection plate X ₂
9	Anode # 2
10	Vertical deflection plate Y ₁
II	Vertical deflection plate Y ₂
12	Grid # I (support)
13	Not connected
14	Heater

2. Ambient conditions

2.1. CRT is designed to withstand the following mechanical factors:

- vibration in the frequency range from 1 to 200 Hz with the acceleration of $49,1 \text{ m/s}^2$ ($5g$);

-repeated impacts with the acceleration up to 392 m/s^2 ($40g$) for impact duration of 2 to 10 ms.

2.2. CRT is designed to withstand the following environmental factors:

- temperature of the air or any other gas (except for an aggressive one) from 213 to 358K;
- relative humidity up to 98% at the temperature of 308K;
- reduced atmospheric pressure of 53600Pa;
- increased air pressure of 297198Pa.

3. Basic technical data

3.1. Electrical and light characteristics

Characteristics	Standard
Heater voltage, V	6,3
Heater current, A	0.27 to 0.33
Anode # 1 voltage, V	0 to 50
Anode # 2 voltage, V	500
Cut-off voltage, negative, V	90 to 30
Line width in the centre of the screen at the screen brightness of 5 cd/m^2 , mm, no more than Modulation voltage at the screen brightness of 5 cd/m^2 , mm, no more than	28
3.2. Electrical characteristics during 1500 h of operation	
Line width in the centre of the screen, mm, no more than Brightness of stray emission, cd/m^2 , no more than Modulation voltage, V, no more than	0.4 0.1 35
3.3. Maximum and minimum ratings	
Heater voltage, V	5.7 to 6.9
Anode # 1 voltage, V, no more than	150
Anode # 2 voltage, V	400 to 800

Cathode-heater voltage, V from minus

125 to 0

Grid # 1 circuit resistance, MΩ, no more than

1.5

Voltage between any two of the deflecting plates
and anode # 2, V from minus

450 to 450

Grid # 1 voltage, V from minus

125 to 0

Any deflection plate circuit impedance at the
frequency of 50Hz, MΩ, no more than

2.0

Weight, g, no more than

200

Tube dimensions:
Overall length, mm, no more than
Screen diameter, mm, no more than

115
33.5

4. Operating and handling considerations

4.1. CRT's should not be used when two or more, than two parameters values are maximum ratings.

4.2. CRT's should be fixed in the equipment by means of buffering flanges.

Direct contact of CRT glass bulb with metallic parts of the equipment is not allowed.

4.3. When designing electronic equipment it is necessary to provide for automatic electron beam cut-off to prevent CRT failure when the scanning generator is not operating.

4.4. It is necessary to ensure the protection of electronic equipment against short-term flashovers of CRT's which do not cause tube failure.

5. Storage

CRT's should be stored in the producer's packing or installed into the equipment in heated storage rooms at the temperature from 273K to 313K and relative air humidity up to 80% at the temperature of 298K.

CRT meets the requirements of specifications.