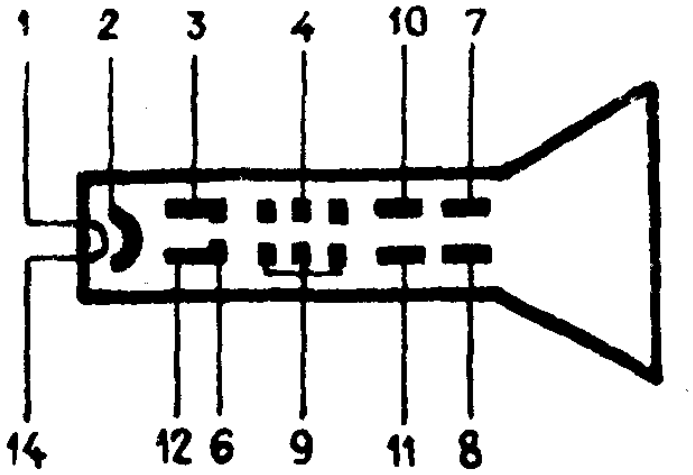
CATHODE-RAY TUBE
6LO1I

1. GENERAL INFORMATION

Cathode-ray tube 6LO1I has electrostatic focus and deflection of the electron beam, with a rectangular screen, green phosphor, and an average persistence, intended for monitoring electronic processes by visual observations in different radio and technical devices.



Pin	Electrode Name
1	Heater
2	Cathode
3	Control grid
4	Primary anode
5	No connection
6	Focus grid
7	Timebase plate X_1
8	Timebase plate X_2
9	Second anode
10	Signal plate Y_1
11	Signal plate Y_2
12	Focus grid
13	No connection
14	Heater

2. OPERATING CONDITIONS

2.1. CRT mechanical limits during operation:

— 98.1 m/s ^{2} (10 G) vibration from 1 to 200 Hz;
— repeated shocks to 392 m/s ^{2} (40 g) lasting 2-10 ms.

2.2. CRT environmental conditions during operation:

— air or other gas (non-corrosive) from 213 to 358K;
— 98% relative humidity to 308K;
— minimum atmospheric pressure 53600 Pa;
— maximum air pressure 297 198 Pa.

3. BASIC TECHNICAL SPECIFICATIONS

3.1. Electrical and optical parameters

Parameter	Value
Heater voltage, V	6.3
Heater current, A	0.27 — 0.33
1st anode voltage, V	45 — 135
2nd anode voltage, V	1200
Cutoff voltage, negative, V	90 — 30
Width of focussed trace in the center of the screen with an intensity of 5 cd/m^2, mm, no more than	0.3
Control grid voltage for an intensity of 5 cd/m^2, V, no more than	25
Timebase plate sensitivity, mm/V	0.11 — 0.15
Signal plate sensitivity, mm/V	0.15 — 0.20

3.2. Electrical parameters during first 1500h of operation

Width of focussed trace in the center of the screen, mm, no more than	0.4
Brightness of secondary glow, cd/m^2, no more than	0.05
Control grid voltage, V, no more than	30

3.3. Maximum operational values

Heater voltage, V	5.7 — 6.9
1st anode voltage, V	0 — 300
2nd anode voltage, V	600 — 1500
Heater-cathode voltage, V	from minus 130 to 0
Control grid voltage, V	from minus 125 to 0
Control grid circuit impedance, MΩ, no more than	1.5
Voltage between any deflection plates and 2nd anode, V	from minus 450 to 450
Impedance in any deflection plate circuit at 50Hz, MΩ, no more than	2.0

3.4. Mechanical design, guaranteed

CRT mass, g, no more than	200
Overall dimensions:	
CRT length, mm, no more than	140
Screen dimensions, mm, no more than	43 × 53

4. PRIMARY CONDITIONS OF OPERATION

4.1. Operation of the CRT with two or more simultaneous maximum values is not permitted.

4.2. CRT must be mounted in the apparatus with shock-absorbing padding.

Do not allow direct contact with the CRT bulb by metallic parts of the apparatus.

4.3. During the development of electronic apparatus, it is recommended to provide automatic cutoff of the beam to prevent damage to the CRT when timebase is not operating (At power-on or in case of sweep failure).

4.4. It is recommended to provide protection for the electronic equipment from short-term breakdown of the CRT not leading to failure.

5. STORAGE

The CRT must be stored in its original packaging or installed in equipment at temperatures from 278 to 313 K, and a relative humidity of 80% at a temperature of 298 K.

CRT corresponds to the technical specifications.

FOR YOUR INFORMATION

For the instruments intended for operation in countries with a tropical climate, protect the external parts with vaseline to protect against corrosion, and remove the coating of vaseline before bringing instruments into service,