

ELECTRONIC TUBE REFERENCE

11LO101I

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Russian cathode-ray display tube with a multi-electrode electron gun and high-voltage final acceleration around 12 kV. Published limits cover several anodes, grid, heater leakage, and screen currents, indicating a specialized controlled-beam display device.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Cathode Ray
No fixed ratings recorded.
Oscillographic cathode-ray tube; values manually transcribed from the source page image.

11LO101I oscillographic cathode-ray tube for visual registration of high-frequency oscillations, with electrostatic focusing and deflection and a green screen.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Russian

Published test conditions and operating points. Values on this page are preserved as reported by this source.

195X RUSSIAN

Section 1 · Cathode Ray

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	0.27-0.33 A	Published range
Fourth-anode voltage	12 kV	Nominal operating condition
First-anode current	<0.5 μ A	Published
Second-anode current	<300 μ A	Published
Third-anode current	<50 μ A	Published
Fourth-anode current without dark current	>5 μ A	Published
Fourth-anode dark current	5-50 μ A	Published
Grid current	<10 μ A	Published
Screening-plate current	<5 μ A	Published
Cathode-heater leakage current	<30 μ A	Published
Cathode-modulator leakage current	<3 μ A	Published
First-anode voltage	250-350 V	Published
Second-anode voltage	-50 to +50 V	Published
Third-anode voltage	$\pm$ 50 V	Published
Grid voltage	-50 V	Published
Screening-grid voltage	$\pm$ 50 V	Published
Cutoff modulator voltage	-40 to -90 V	Published
Cathode voltage	-2000 V	Published
Modulation voltage	<25 V	Published

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Time-base plate deflection sensitivity	>0.65 mm/V	Published
Signal-plate deflection sensitivity	>1.9 mm/V	Published
Sensitivity nonlinearity	<3 %	Published
Wave impedance	330-360 Ω	Published
Warm-up time	<2 min	Published
Modulator-to-all-electrodes capacitance	<11 pF	Published
Cathode-to-all-electrodes capacitance	<5 pF	Published
Time-base-plate capacitance	<2.5 pF	Published
Signal-plate capacitance	<3 pF	Published
Service life	>1000 h	Published

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum heater voltage	6.93 V	Minimum 5.67 V
Maximum fourth-anode voltage	13 kV	Minimum 5 kV
Maximum modulator voltage	-5 V	Minimum -200 V
Maximum cathode voltage	-1.8 kV	Minimum -2.2 kV
Maximum heater-to-cathode voltage	0 V	Minimum -150 V
Maximum mean time-base plate potential	25 kV	Minimum 0 kV

TUBE TINKER

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