



ELECTRONIC TUBE REFERENCE

1J42A

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Very-low-consumption Soviet multi-control pentode for RF amplification, oscillation, and frequency conversion. Two control grids support mixer and oscillator functions while an exceptionally economical filament suits battery-powered equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.2 V / 15 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	20 V
MAXIMUM SCREEN VOLTAGE	12 V
MAXIMUM CATHODE CURRENT	1.3 mA
<i>Values promoted where clearly identifiable from Russian source.</i>	

Directly heated pentode with two control grids for RF amplification, oscillation and frequency conversion.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1981 Russian Tubes Katsnelson and Larionov

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

1981 RUSSIAN TUBES KATSNELSON AND LARIONOV

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	8	Published Russian-source value; OCR-normalized.
Screen current	0.25 mA	Published Russian-source value; OCR-normalized.
Output capacitance	3.5 pF	Published Russian-source value; OCR-normalized.
Transfer capacitance	0.035 pF	Published Russian-source value; OCR-normalized.
Service life	2000 h	Published Russian-source value; OCR-normalized.
Transconductance	1	Published Russian-source value; OCR-normalized.
Heater current	1.5 mA	Nominal/published heater value.