



ELECTRONIC TUBE REFERENCE

1J18B

Voltage Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Directly heated subminiature Russian pentode for high- and intermediate-frequency voltage amplification. It is a compact RF/IF signal tube intended for miniature equipment rather than power-output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.2 V / 23.5 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	60 V
MAXIMUM CATHODE CURRENT	2.5 mA
<i>Values promoted where clearly identifiable from Russian source.</i>	

Directly heated subminiature pentode for high- and intermediate-frequency voltage amplification.

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	0.5 mA	Published Russian-source value; OCR-normalized.
Screen current	0.25 mA	Published Russian-source value; OCR-normalized.
Transconductance	0.45 μ S	Published Russian-source value; OCR-normalized.
Input capacitance	0.9 pF	Published Russian-source value; OCR-normalized.
Output capacitance	0.4 pF	Published Russian-source value; OCR-normalized.
Transfer capacitance	0.01 pF	Published Russian-source value; OCR-normalized.
Service life	3000 h	Published Russian-source value; OCR-normalized.
Transconductance	0.55 μ S	Published Russian-source value; OCR-normalized.
Plate current	45 mA	Published Russian-source value; OCR-normalized.
Screen current	1 mA	Published Russian-source value; OCR-normalized.
Transconductance	0.3 μ S	Published Russian-source value; OCR-normalized.
Input capacitance	0.4 pF	Published Russian-source value; OCR-normalized.
Output capacitance	0.45 pF	Published Russian-source value; OCR-normalized.

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transfer capacitance	0.008 pF	Published Russian-source value; OCR-normalized.
Service life	25000 h	Published Russian-source value; OCR-normalized.
Heater current	2.5 mA	Nominal/published heater value.