

Rugged directly heated high-frequency amplifier pentode.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.2 V / 185 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0033 S
Russian 2P5B high-durability directly heated oxide-coated miniature pentode for high-frequency oscillation and amplification, flexible lead construction. Filament 1.2 V 185 mA (160–210 mA range). Manufacturer-derived summary lists anode 90 V, screen 90 V, grid 1 bias -4.5 V, typical transconductance 3.3 mA/V (range 2.4–4.2 mA/V), anode current 18 mA, stated anode power 2.3 W, reverse grid current 0.1 μA and microphonic noise 130 mV. These voltages and anode-power figures are not explicitly designated absolute maxima and are retained as operating data in notes, not promoted to max fields. Section index standardized from 0 to 1.	

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

2026 Russian Receiving

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

2026 RUSSIAN RECEIVING

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	90 V	Typical anode voltage

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	1.2 V	Filament voltage
Heater/filament current	185 mA	Filament current

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker