



ELECTRONIC TUBE REFERENCE

4ZH1L

Voltage - Pentode High Frequency (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Russian indirectly heated screened RF pentode for high-frequency voltage and power amplification and oscillation up to approximately 200 MHz. Nominal heater 4.2 V, 225 mA; published transconductance 1.7 mA/V.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	4.2 V / 225 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode

TRANSCONDUCTANCE	0.0017 S
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Russian 4ZH1L screened, indirectly heated oxide-cathode high-frequency pentode for voltage/power amplification and RF oscillation up to approximately 200 MHz. Heater 4.2 V 225 mA (210-240 mA range); manufacturer-derived summary lists anode 150 V at about 2 mA (1.4-3.3 mA range), screen grid 75 V, control-grid bias -2.1 V, transconductance 1.7 mA/V (range 1.2-2.1 mA/V), and printed anode power 2 W; microphone-noise figure 150 mV. These voltages/power are not explicitly absolute maximum ratings, so maximum plate/screen voltage and dissipation remain NULL. Glass envelope with exterior shielding, reported RSH7 socket.



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	150 V	—
Screen Voltage	75 V	—
Grid Voltage	-2.1 V	—
Plate Current	2 mA	—

TUBE TINKER

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and their source documents.

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