



ELECTRONIC TUBE REFERENCE

12J1L

Voltage - Pentode Sharp Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Russian universal pentode designed to withstand demanding ambient conditions. Bilingual manufacturer literature provides guaranteed electrical characteristics, but the available application wording is not specific enough to assign a narrower functional family conservatively.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	12.6 V / 75 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
TRANSCONDUCTANCE	0.00165 S
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	225 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.7 W
Russian 12Zh1L (12J1L) universal short-characteristic pentode with flat base, external metal shield and indirectly heated oxide cathode, used for voltage/power amplification and RF oscillation up to 200 MHz. Nominal heater 12.6 V, 75 mA. Maximum normal plate 250 V, screen 225 V, plate dissipation 2 W and screen dissipation 0.7 W. Screen voltage 300 V allowed only at switching-on, not continuously. Transconductance about 1.65 mA/V, published guarantee 2000 h; -60 to +70°C ambient.	

The 12)X1Jl universal pentodes are resistant



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Guaranteed service life	2000 h	PublishedGuarantee
Transconductance	165045 mA/V	PublishedElectricalCharacteristics

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