



ELECTRONIC TUBE REFERENCE

6E5S

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TUNING INDICATOR

Russian indirectly heated electron-beam tuning indicator used to display receiver tuning or signal strength. Its fluorescent display and control-electrode response provide a visible indication rather than conventional tetrode voltage amplification.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tuning Indicator

MAXIMUM PLATE VOLTAGE	250 V
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Russian 6E5S (6E5C) indirectly heated electron-beam fluorescent TUNING INDICATOR, not ordinary amplifier tetrode. Manufacturer description specifies indicator operation for visual tuning of radio/electronic equipment. Reported heater nominal 6.3 V 0.3 A, anode operating around 250 V and control/grid typical -4 V, anode current about 5.3 mA; summary gives control sensitivity/gain 24 (range 22-26) and transconductance 1.2 mA/V (range 0.8-1.6) but such indicator measurements must not be treated automatically as conventional tetrode intrinsic gm. Existing max_plate_voltage 250 V retained as approved; operating values documented separately. Eight-contact construction and available Russian reference should be reconciled with actual indicator basing in a separate base audit.

Tetrode vacuum tube described in the bilingual source.

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 · Tuning Indicator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Published electrical parameter	4 V	при 0,=6,3 В, (0,==250 В, Идк=250 В, И,=—4 В
Reverse current	2 μA	Обратный ток сетки 2 мкА
Cutoff voltage	5±4.5 V	Напряжение отсечки тока анода (отрицательное) 5=4,5 В
Heater voltage	5.7–6.9 V	Напряжение накала , 5,7—6,9 В
Plate voltage	250 V	Напряжение анода , 250 В
Plate voltage	140–250 V	Напряжение анода кратера ж , 140—250 В
Published electrical parameter	100 V	Напряжение между катодом и подогревателем ,ж 100 В

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