



ELECTRONIC TUBE REFERENCE

2S3A

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Russian 2S3A (2C3A) directly heated subminiature glass triode for radiosonde RF transmitters up to 230 MHz, with 2.4 V 122 mA filament.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.4 V / 122 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.0027 S
AMPLIFICATION FACTOR	7.5
<p><i>Katsnelson/Larionov 1981 p79 original Russian 2C3A directly heated radiosonde triode. Nominal at filament 2.4 V, anode 65 V, grid -2 V: Ia 10.5±2.5 mA, mu 7.5±1.5, gm 0.0027 A/V (+0.0008/-0.0009). Former stored gm 0.0015 A/V is minimum acceptance at filament 2.0 V, not nominal. Reverse grid current ≤0.5 μA, grid electron current ≤0.5 mA at grid +2 V, grid-plate and grid-cathode insulation ≥25 MΩ. Input capacitance 1.6±0.2 pF, output 3.1±0.45 pF, transfer 3.0 (+0.3/-0.7) pF. No specified maximum plate voltage or rp. Filament 2.4 V 122 mA, tolerance 110-135 mA.</i></p>	

2S3A triode from a Russian vacuum-tube reference; technical description translated to English.

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 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater current	199413 mA	Ток накала , . 22а 199413 мА
Transconductance	1.5 mA/V	крутизна характеристики при ИШв=2 В. . . , 1,5 мА/В

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