



ELECTRONIC TUBE REFERENCE

6N1

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Shuguang 6N1 indirectly heated dual triode for low-frequency voltage amplification, 6.3 V 600 mA heater and 35 amplification factor.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.00455 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Shuguang 6N1 physical triode section 1. Heater total 6.3 V 0.6 A. Max plate 300 V, dissipation 2.2 W, cathode current 25 mA, heater-cathode ± 250 V, grid resistor 1 MΩ. Typical V_a 250 V, I_a 7.5 ± 1.7 mA, R_k 600 Ω, g_m 0.00455 ± 0.00075 A/V, μ 35 ± 7. Output C 1.75 ± 0.35 pF, transfer C 1.85 ± 0.85, interplate 0.075 pF, $Chk \leq 5.6$ pF.</i>	

SECTION2 Triode	
TRANSCONDUCTANCE	0.00455 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.2 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Shuguang 6N1 physical triode section 2. Heater total 6.3 V 0.6 A. Max plate 300 V, dissipation 2.2 W, cathode current 25 mA, heater-cathode ± 250 V, grid resistor 1 MΩ. Typical V_a 250 V, I_a 7.5 ± 1.7 mA, R_k 600 Ω, gm 0.00455 ± 0.00075 A/V, μ 35 ± 7. Output C 1.95 ± 0.85 pF, transfer C 1.85 ± 0.85, interplate 0.075 pF, Chk ≤ 5.6 pF.</i>	

Indirectly heated oxide-cathode dual triode intended for low-frequency voltage amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

198X Shuguang

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

198X SHUGUANG

Section 1 · Triode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	Nominal
Heater current	600 mA	Nominal
Plate voltage	250 V	Published principal electrical parameter

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