



ELECTRONIC TUBE REFERENCE

7DJ8

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

High-transconductance low-noise double triode designed for cascode RF amplification in television tuners, with low equivalent noise resistance supporting sensitive VHF front-end service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	7 V / 300 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Grounded-cathode input triode, pins 6 (plate), 7 (grid), 8 (cathode). Typical operation: plate 90 V, grid -1.3 V, plate current 15 mA. In specified grid-current-bias cascode circuit without AGC, plate voltage should not exceed 75 V. Rogers 7DJ8 and Sylvania Technical Manual.</i>	

SECTION2 Triode	
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	33
MAXIMUM PLATE VOLTAGE	130 V
MAXIMUM PLATE DISSIPATION	1.8 W
MAXIMUM CATHODE CURRENT	25 mA
<i>Grounded-grid output triode, pins 1 (plate), 2 (grid), 3 (cathode). Typical operation: plate 90 V, grid -1.3 V, plate current 15 mA. Grounded-grid cathode-to-heater voltage DC component maximum 130 V (with additional specified peak voltage limits). Rogers 7DJ8 and Sylvania Technical Manual.</i>	

High-transconductance low-noise double triode for television tuner cascode amplifiers.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Rogers

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

1959 ROGERS

Section 1 · Triode

APPLICATION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Low-noise RF cascode amplifier	—

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Equivalent noise resistance	300 ohm	—

TUBE TINKER

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