

ELECTRONIC TUBE REFERENCE

6CC42

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Twin triode designed for HF/VHF amplification, mixer, and oscillator service, combining high-frequency gain and frequency-conversion functions for radio receiving equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 350 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	67000 Ω
TRANSCONDUCTANCE	0.00525 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	15 mA
Representative electrical section; repeated identical physical sections compressed where applicable.	

SECTION2 Triode	
PLATE RESISTANCE	67000 Ω
TRANSCONDUCTANCE	0.00525 S
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Second physical triode section; electrically identical twin section.</i>	

Twin triode with separate cathodes for HF/VHF amplification, mixer and oscillator service.



SOURCE OPERATING CONDITIONS

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195X Tesla

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

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Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	150 V	Section1/Section2
Grid bias	-2 V	Section1/Section2
Plate current	8 mA	Section1/Section2

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Input capacitance	2.2 pF	Section1/Section2
Output capacitance	0.4 pF	Section1/Section2



SOURCE OPERATING CONDITIONS

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1969 Tesla Manual of Electronic Tubes

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

1969 TESLA MANUAL OF ELECTRONIC TUBES

Section 1 · Triode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	HF_VHF_Amplifier_Mixer_Oscillator text	—

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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