



ELECTRONIC TUBE REFERENCE

6R7G

Voltage - Triode (with diode, heptode or hexode) electronic tube

CONSOLIDATED TECHNICAL
DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-TRIODE

Glass-envelope double-diode low-mu triode for detector, AVC, and amplifier service. Two diodes handle signal and control rectification while the low-resistance triode provides greater current drive than high-mu detector types.

GENERAL CHARACTERISTICS

BASE DESIGNATION	8	BASE PINS	8
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Promoted from clearly identified printed ratings/characteristics; additional operating points and capacitances retained in TUBE_SECTION_PARAMETER. The source identifies two independent detector diodes but does not publish separate diode electrical ratings.

SECTION2 Diode

No fixed ratings recorded.

Second physical detector diode section added in approved section-structure reconciliation.

SECTION3 Triode	
PLATE RESISTANCE	8500 Ω
TRANSCONDUCTANCE	0.0019 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	250 V
<i>Promoted from clearly identified printed ratings/characteristics; additional operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

Indirectly heated double-diode medium-mu triode for diode detection and triode amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Raytheon Radio Receiving Tubes

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

1937 RAYTHEON RADIO RECEIVING TUBES

Section 3 · Triode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	3.5 pF	Section1
Input capacitance	2.5 pF	Section1
Output capacitance	4.5 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	ClassA
Grid bias	-9 V	ClassA
Plate current	9.5 mA	ClassA
Load resistance	10000 Ω	ClassA
Power output	280 mW	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	8500 Ω	Section1
Transconductance	1900 μS	Section1
Amplification factor	16	Section1

TUBE TINKER

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and their source documents.

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