



ELECTRONIC TUBE REFERENCE

6S7G

Voltage - Pentode Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Remote-cutoff RF pentode designed for high-frequency amplifier service. Its extended-control characteristic permits automatic gain regulation in receiver RF stages while maintaining useful signal gain.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7	BASE PINS	7
NOMINAL HEATER	6.3 V / 150 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.00125 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	100 V
<i>Promoted from clearly identified printed ratings/characteristics; additional operating points and capacitances retained in TUBE_SECTION_PARAMETER.</i>	

Remote-cutoff RF pentode for high-frequency amplifier service.

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 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.007 pF	Section1
Input capacitance	4.6 pF	Section1
Output capacitance	7.8 pF	Section1

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	ClassA
Screen voltage	67.5 V	ClassA
Grid bias	-3 V	ClassA
Plate current	3.7 mA	ClassA
Screen current	0.9 mA	ClassA
Plate voltage	250 V	ClassA
Screen voltage	100 V	ClassA
Plate current	8.5 mA	ClassA
Screen current	2 mA	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	680000 Ω	135VPlate
Transconductance	1250 μS	135VPlate
Plate resistance	630000 Ω	250VPlate
Transconductance	1750 μS	250VPlate

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	150 mA	—
Plate current	3.78.5 mA	Typical operating conditions

TUBE TINKER

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and their source documents.

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