



ELECTRONIC TUBE REFERENCE

6GN6

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

3 SECTIONS

CONSTRUCTION

DIODE-DIODE-PENTODE

Remote-cutoff pentode with demodulator diodes for controlled-gain amplification and signal detection. The variable-mu pentode supports gain control while diode sections provide complementary demodulation or control functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7FW	BASE PINS	9
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	200000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.9 W
Remote-cutoff pentode; promoted values use 250 V typical point where applicable.	

SECTION2 Diode	
MAXIMUM CATHODE CURRENT	1 mA
Demodulator diode sharing cathode with pentode; continuous diode-current rating 1 mA.	

SECTION3 Diode

No fixed ratings recorded.

The 6GN6 combines a remote-cutoff pentode with a demodulator diode on a common cathode. It is intended primarily for high-gain RF or IF amplifier service with simultaneous detection.

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	300 mA	—
Plate voltage	100250 V	Typical operating conditions
Screen voltage	100100 V	Typical operating conditions
Plate current	10.811 mA	Typical operating conditions

1961 TUNG SOL

Section 2 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	100250 V	Typical operating conditions
Screen voltage	100100 V	Typical operating conditions
Plate current	10.811 mA	Typical operating conditions

1961 TUNG SOL

Section 3 · Diode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	6.3 V	—
Heater current	300 mA	—
Plate voltage	100250 V	Typical operating conditions
Screen voltage	100100 V	Typical operating conditions

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	10.811 mA	Typical operating conditions



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1966 Tung Sol Electronic Tubes 2 of 4

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

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 1 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid 1 to plate capacitance	0.0035 pF	—
Input capacitance	5.5 pF	—
Output capacitance	5 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	ClassA1
Plate voltage	250 V	ClassA1
Screen voltage	100 V	ClassA1
Plate current	12 mA	ClassA1;250VPlate
Screen current	4.2 mA	ClassA1;250VPlate

1966 TUNG SOL ELECTRONIC TUBES 2 OF 4

Section 2 · Diode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Diode plate to grid coupling capacitance	0.05 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Average diode current	1.5 mA	At10VDC

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum continuous diode current	1 mA	DemodulatorDiode

TUBE TINKER

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