

ELECTRONIC TUBE REFERENCE

7167

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Sharp-cutoff VHF tetrode designed for amplifier service in mobile communications equipment, providing high-frequency signal gain in compact communications receivers or transmitters.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7EW	BASE PINS	7
NOMINAL HEATER	13.5 V / 90 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7EW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – G1	A	G1 – Control Grid	CONNECTED
PIN2 – IS	A	IS – Internal Screen	CONNECTED
PIN2 – K	A	K – Cathode	CONNECTED
PIN3 – H	–	H – Heater	CONNECTED
PIN4 – H	–	H – Heater	CONNECTED
PIN5 – P	A	P – Plate (Anode)	CONNECTED
PIN6 – G2	A	G2 – Screen Grid	CONNECTED
PIN7 – IS	A	IS – Internal Screen	CONNECTED
PIN7 – K	A	K – Cathode	CONNECTED

SECTION RATINGS

SECTION1 Tetrode	
PLATE RESISTANCE	125000 Ω
TRANSCONDUCTANCE	0.01 S
MAXIMUM PLATE VOLTAGE	180 V
MAXIMUM SCREEN VOLTAGE	180 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM SCREEN DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Published ratings and characteristics promoted from the supplied Sylvania source.</i>	

Sharp-cutoff VHF tetrode for mobile communications equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Sylvania

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

1950 SYLVANIA

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13.5 V	—
Heater Current	20 mA	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1965 Sylvania Electronic Tubes Vol3

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

1965 SYLVANIA ELECTRONIC TUBES VOL3

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13.5 V	—
Heater Current	90 mA	—
Heater Voltage Minimum	11.8 V	—
Heater Voltage Maximum	15.5 V	—
GridToPlateCapacitanceMaximum	0.03 pF	—
Input Capacitance	4.4 pF	—
Output Capacitance	2.74 pF	—
Plate Voltage	125 V	—
Screen Voltage	80 V	—
Plate Current	10 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Current	2 mA	—
Plate Resistance	125000 ohm	—
Transconductance	10000 uS	—
GridCutoffBias	-4.5 V	—