

ELECTRONIC TUBE REFERENCE

6HL5

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

High-perveance beam-power pentode designed for sensitive audio-output amplifier service, providing high power sensitivity for receiving equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9QW	BASE PINS	9
NOMINAL HEATER	6.3 V / 950 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9QW - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	G1 – Control Grid	CONNECTED
PIN2	–	G1 – Control Grid	CONNECTED
PIN3	–	G3 – Suppressor Grid	CONNECTED
PIN3	–	K – Cathode	CONNECTED
PIN4	–	H – Heater	CONNECTED
PIN5	–	H – Heater	CONNECTED
PIN6	–	–	IC
PIN7	–	P – Plate (Anode)	CONNECTED
PIN8	–	–	IC
PIN9	–	G2 – Screen Grid	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	7500 Ω
TRANSCONDUCTANCE	0.017 S
AMPLIFICATION FACTOR	13
MAXIMUM PLATE VOLTAGE	330 V
MAXIMUM SCREEN VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	110 mA
<i>Published ratings/characteristics promoted from supplied source; additional conditions retained in parameter table.</i>	

High-perveance beam-power pentode for sensitive audio output amplifier service.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1964 RMA EIA

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

1964 RMA EIA

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	950 mA	—
Plate Resistance	7500 ohm	—
Transconductance	17000 uS	—
Amplification Factor	13	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage Maximum	330 V	—
Screen Voltage Maximum	250 V	—
Plate Dissipation Maximum	12 W	—
Screen Dissipation Maximum	2.5 W	—
Cathode Current Maximum	110 mA	—
Plate Voltage	130 V	ClassA
Screen Voltage	130 V	ClassA
Plate Current	70 mA	ClassA
Screen Current	5 mA	ClassA
Power Output	3 W	ClassA
Power Output	16.5 W	TwoTubes;PushPull;ClassAB

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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7500 ohm	—
Transconductance	17000 uS	—
Amplification factor	13	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	330 V	—
Maximum screen-grid voltage	250 V	—
Maximum plate dissipation	12 W	—
Maximum screen-grid dissipation	2.5 W	—
Maximum cathode current	110 mA	—
Heater voltage	6.3 V	—
Heater current	950 mA	—
Typical plate voltage	130 V	ClassA
Typical screen-grid voltage	130 V	ClassA
Typical plate current	70 mA	ClassA
Typical screen-grid current	5 mA	ClassA
Typical Class A power output	3 W	ClassA
Push-pull plate voltage	260 V	ClassAB PushPull TwoTubes
Push-pull power output	16.5 W	ClassAB PushPull TwoTubes
Push-pull plate-to-plate load resistance	5500 ohm	ClassAB PushPull TwoTubes

TUBE TINKER

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

