

ELECTRONIC TUBE REFERENCE

17GJ5

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

A nine-pin Novar beam-power pentode designed for television horizontal-output amplification. Featuring a 16.8-volt, 450-milliampere heater and top-cap plate connection, it supports high peak plate voltages and currents with controlled warm-up characteristics suitable for series-heater television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9QK	BASE PINS	9
NOMINAL HEATER	16.8 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9QK - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1	–	G2 – Screen 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	–	G1 – Control Grid	CONNECTED
PIN7	–	G2 – Screen Grid	CONNECTED
PIN9	–	–	IC
CAP1	A	P – Plate (Anode)	CONNECTED

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	15000 Ω
TRANSCONDUCTANCE	0.0071 S
AMPLIFICATION FACTOR	4.4
MAXIMUM PLATE VOLTAGE	770 V
MAXIMUM SCREEN VOLTAGE	220 V
MAXIMUM PLATE DISSIPATION	17.5 W
MAXIMUM SCREEN DISSIPATION	3.5 W
MAXIMUM CATHODE CURRENT	550 mA

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1970 Sylvania Technical Manual

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

1970 SYLVANIA TECHNICAL MANUAL

Section 1 · Beam Power

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	250 V	—
Screen Voltage	150 V	—
Grid Bias	-22.5 V	—
Plate Current	70 mA	—
Screen Current	2.1 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Peak positive pulse plate voltage	6500 V	peak positive plate voltage; Sylvania 1970
Peak negative pulse plate voltage	-1500 V	peak negative plate voltage; Sylvania 1970
Average cathode current	175 mA	average cathode maximum; Sylvania 1970
Peak cathode current	550 mA	peak cathode maximum; Sylvania 1970
Heater warm-up time	11 s	heater warmup; Sylvania 1970
Grid #1 voltage	-42 V	cutoff at Ib 1mA; Sylvania 1970
Plate voltage	60 V	knee plate voltage; Sylvania 1970
Plate current	390 mA	knee plate current; Sylvania 1970
Grid #2 current	32 mA	knee screen current; Sylvania 1970
Bulb Temperature (At hottest point)	240 degC	bulb max temperature; Sylvania 1970
Peak Heater-Cathode Voltage	200 V	heater negative DC+peak; Sylvania 1970
Peak Heater-Cathode Voltage	100 V	heater positive DC; Sylvania 1970
Peak Heater-Cathode Voltage	200 V	heater positive DC+peak; Sylvania 1970

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	0.26 pF	grid-plate capacitance; Sylvania 1970
Input capacitance	15 pF	input capacitance; Sylvania 1970
Output capacitance	6.5 pF	output capacitance; Sylvania 1970

TUBE TINKER

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

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker