

ELECTRONIC TUBE REFERENCE

6CS5

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
BEAMPOWER

Miniature beam-power pentode intended for television-receiver audio output, designed to deliver useful power from relatively low plate and screen voltages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	9CK	BASE PINS	9
NOMINAL HEATER	6.3 V / 1.2 A	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

9CK - TERMINAL PINOUT

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

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	13000 Ω
TRANSCONDUCTANCE	0.008 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM SCREEN DISSIPATION	1.25 W
<i>Published promoted fields populated from printed headings.</i>	

The 6CS5 is a miniature beam-power pentode intended for audio power output in television receivers. It is designed to deliver useful output power at relatively low plate and screen voltages and is electrically similar to the 12CS5 apart from heater ratings.



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 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	8000 μ S	Typical



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 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	110 V	ClassA
Screen voltage	110 V	ClassA
Control-grid voltage	-7.5 V	ClassA
Load resistance	2000 ohm	ClassA
Power output	2.1 W	ClassA
Plate voltage	200 V	ClassA
Screen voltage	125 V	ClassA
Cathode-bias resistor	180 ohm	ClassA
Power output	3.8 W	ClassA

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Zero-signal plate current	49 mA	ClassA
Maximum-signal plate current	50 mA	ClassA
Plate resistance	28000 ohm	ClassA
Triode-connected plate resistance	1500 ohm	TriodeConnection
Triode-connected transconductance	3800 uS	TriodeConnection
Triode-connected amplification factor	6.2	TriodeConnection

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-1-to-plate capacitance	0.7 pF	—
Input capacitance	11 pF	—
Output capacitance	7 pF	—