

ELECTRONIC TUBE REFERENCE

6KG6

Power - TV Horizontal Output (sweep) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
BEAMPOWER

Output pentode designed specifically for horizontal-deflection circuits in color television receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	6.3 V / 2.5 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Beam Power	
PLATE RESISTANCE	8000 Ω
TRANSCONDUCTANCE	0.018 S
MAXIMUM PLATE VOLTAGE	900 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	35 W
MAXIMUM SCREEN DISSIPATION	7 W
MAXIMUM CATHODE CURRENT	500 mA
MAXIMUM HEATER-CATHODE VOLTAGE	275 V
Section values promoted from published characteristics and maximum ratings.	

Output pentode designed for horizontal-deflection circuits in color television receivers. The supplied datasheet was read for published construction, ratings, characteristics, and stated applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 Amperex

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

1953 AMPEREX

Section 1 · Beam Power

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/Filament Voltage	6.3 V	—
Heater/Filament Current	2 A	—
Maximum Plate Voltage	980 V	—
Maximum Plate Dissipation	40 W	—
Maximum Screen Voltage	275 V	—
Maximum Screen Dissipation	9 W	—



SOURCE OPERATING CONDITIONS

199X Svetlana

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

199X SVETLANA

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage (AC or DC) 5.7 6.3	6.9 V	SourcePage1-2
Current @6.3 volts	2.5 A	SourcePage1-2
Plate resistance (nominal)	8000 ohms	SourcePage1-2
Grid to plate	2.5 pF	SourcePage1-2
Grid to cathode	25 pF	SourcePage1-2

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
DC plate voltage	900 V	SourcePage1-2
DC plate voltage, pulsed	8000 V	SourcePage1-2
DC cathode current	500 mA	SourcePage1-2
DC screen grid voltage	300 V	SourcePage1-2
Screen dissipation	7 W	SourcePage1-2
Plate dissipation	35 W	SourcePage1-2
Plate voltage	500 V	TypicalOperation
Screen voltage	280 V	TypicalOperation
Grid no.1 voltage	-82 V	TypicalOperation
Plate current, no signal	70 mA	TypicalOperation
Plate current, max signal	100 mA	TypicalOperation
Effective load resistance	1650 ohms	TypicalOperation
Distortion at 1 watt into	8 ohms	TypicalOperation
Power output at 5% distortion	14 W	TypicalOperation
Screen Voltage =	140 V	TypicalOperation
Control Grid Voltage =	0 V	TypicalOperation