



ELECTRONIC TUBE REFERENCE

4BA6

Voltage Pentode - Remote Cutoff (single) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Miniature remote-cutoff pentode designed for high-gain RF or IF amplification. Its small size, low grid-plate capacitance, high transconductance, and variable-mu characteristic suit gain-controlled receiver stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7CC	BASE PINS	7
NOMINAL HEATER	4.2 V / 450 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	1000000 Ω
TRANSCONDUCTANCE	0.0044 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM SCREEN DISSIPATION	0.6 W

The 4BA6 is a miniature remote-cutoff pentode for high-gain radio-frequency or intermediate-frequency amplification. The family features small size, low grid-plate capacitance, and high transconductance.

SOURCE OPERATING CONDITIONS

1968 General Electric Co

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

1968 GENERAL ELECTRIC CO

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Supply Voltage	300 V	—
Plate Voltage	100 V	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Screen Voltage	100 V	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Cathode Bias Resistance	68 ohm	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Plate Voltage	250 V	ClassA; PlateVoltage=250V; ScreenVoltage=100V
Screen Voltage	100 V	ClassA; PlateVoltage=250V; ScreenVoltage=100V
Cathode Bias Resistance	68 ohm	ClassA; PlateVoltage=250V; ScreenVoltage=100V
Heater Warmup Time	11 s	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Resistance	250000 ohm	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Transconductance	4300 uS	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Plate Current	10.8 mA	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Screen Current	4.4 mA	ClassA; PlateVoltage=100V; ScreenVoltage=100V
Plate Resistance	1000000 ohm	ClassA; PlateVoltage=250V; ScreenVoltage=100V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Transconductance	4400 μS	ClassA; PlateVoltage=250V; ScreenVoltage=100V
Plate Current	11 mA	ClassA; PlateVoltage=250V; ScreenVoltage=100V
Screen Current	4.2 mA	ClassA; PlateVoltage=250V; ScreenVoltage=100V

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1ToPlateCapacitanceMaximum	0.0035 pF	WithExternalShield
Input Capacitance	5.5 pF	WithExternalShield
Output Capacitance	5.5 pF	WithExternalShield