



ELECTRONIC TUBE REFERENCE

HK57

Power - Beam (NOT sweep) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

BEAMPOWER

Radiation-cooled Gammatron beam pentode designed for exceptionally high-frequency operation, with very low feedback capacitance permitting operation without neutralization.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	5 V / 5 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Beam Power	
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM SCREEN VOLTAGE	500 V
MAXIMUM PLATE DISSIPATION	50 W
MAXIMUM SCREEN DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	150 mA
<i>Published maximum ratings and characteristics promoted from the datasheet; typical application values remain parameter rows.</i>	

50-watt radiation-cooled beam pentode with exceptionally high-frequency performance, very low feedback capacitance, and operation without neutralization. The source describes Gammatron construction using tantalum electrode structures and a thoriated-tungsten filament where applicable.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1944 Heintz and Kaufman

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

1944 HEINTZ AND KAUFMAN

Section 1 · Beam Power

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	5 V	—
Filament Current	5 A	—
Plate-Grid Capacitance	0.05 pF	InterelectrodeCapacitance
Input Capacitance	7.29 pF	InterelectrodeCapacitance
Output Capacitance	3.13 pF	InterelectrodeCapacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal Plate Dissipation	50 W	—
Maximum Plate Voltage	3000 V	—
Maximum Average Plate Current	150 mA	—
Maximum Screen Input	25 W	—
RF Class C Unmodulated Maximum Screen Current	20 mA	ClassC;Unmodulated
RF Class C Unmodulated Maximum Control Grid Current	15 mA	ClassC;Unmodulated
RF Class C Plate-Modulated Maximum Plate Voltage	3000 V	ClassC;PlateModulated
Typical RF Plate Voltage	3000;2000;1500 V	ClassC;Unmodulated

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and their source documents.

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