



ELECTRONIC TUBE REFERENCE

HK24G

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

VHF-specialized derivative of the HK24 Gammatron power triode for continuous high-frequency operation. Retaining approximately 2 kV plate capability and 25 W dissipation, its construction permits useful continuous service through roughly 300 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	6.3 V / 3 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	2000 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	75 mA
Published maximum ratings and characteristics promoted from the datasheet; typical application values remain parameter rows.	

Very-high-frequency triode derivative of the HK-24, with published continuous-operation UHF performance through 300 megacycles. 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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	6.3 V	—
Filament Current	3 A	—
Amplification Factor	25	—
Grid-Plate Capacitance	0.0156 pF	InterelectrodeCapacitance
Grid-Filament Capacitance	1.8 pF	InterelectrodeCapacitance
Plate-Filament Capacitance	0.2 pF	InterelectrodeCapacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal Plate Dissipation	25 W	—
Maximum Plate Voltage	2000 V	—
Maximum Average Plate Current	75 mA	—
Maximum Grid Bias	-500 V	—
Maximum DC Plate Input	112 W	—
RFPA Class C Unmodulated Plate Input at 60/100/150/200/250/300 mc	112;88;80;70;61;54 W	ClassC;Unmodulated;Frequency=60/100/150/200/250/300Mc
RFPA Class C Plate-Modulated Plate Input at 60/100/150/200/250/300 mc	75;59;53;47;41;36 W	ClassC;PlateModulated;Frequency=60/100/150/200/250/300Mc

TUBE TINKER

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

