



ELECTRONIC TUBE REFERENCE

HK54

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Power transmitting triode intended for RF amplification, oscillation, or related professional service. Manufacturer documentation emphasizes radio-frequency operation, substantial plate loading, and transmitter or industrial applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
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 Triode	
AMPLIFICATION FACTOR	27
MAXIMUM PLATE VOLTAGE	3000 V
MAXIMUM PLATE DISSIPATION	50 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 medium-mu universal triode with tantalum elements, high-frequency efficiency, and applications as amplifier, frequency multiplier, and crystal oscillator. 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	5 V	—
Filament Current	5 A	—
Amplification Factor	27	—
Grid-Plate Capacitance	1.8 pF	InterelectrodeCapacitance
Grid-Filament Capacitance	2 pF	InterelectrodeCapacitance
Plate-Filament Capacitance	0.2 pF	InterelectrodeCapacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal Plate Dissipation	50 W	—
Maximum Plate Voltage	3000 V	—
Maximum Average Plate Current	150 mA	—
RF Class C Unmodulated Maximum Plate Voltage	3000 V	ClassC;Unmodulated
RF Class C Plate-Modulated Maximum Plate Voltage	2500 V	ClassC;PlateModulated
RF Doubler Maximum Plate Voltage	3000 V	FrequencyMultiplier
Audio Power Amplifier Typical Plate Voltage Range	1000-2500 V	AudioAmplifier

TUBE TINKER

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

