



ELECTRONIC TUBE REFERENCE

HK454L

Power - Triode (over 1000V 100W) 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 / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	13.5
MAXIMUM PLATE VOLTAGE	5000 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM CATHODE CURRENT	375 mA
Published maximum ratings and characteristics promoted from the datasheet; typical application values remain parameter rows.	

Low-mu L version of the 454 Gammatron, a 250-watt radiation-cooled triode for high voltage and VHF service with rugged construction and long life. 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	10 A	—
Amplification Factor	13.5	—
Grid-Plate Capacitance	3.2 pF	InterelectrodeCapacitance
Grid-Filament Capacitance	3.9 pF	InterelectrodeCapacitance
Plate-Filament Capacitance	0.7 pF	InterelectrodeCapacitance

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Normal Plate Dissipation	250 W	—
Maximum Plate Voltage	5000 V	—
Maximum Average Plate Current	375 mA	—
Maximum Average Grid Current	60 mA	—
RF Class C Unmodulated Maximum Plate Voltage	5000 V	ClassC;Unmodulated
RF Class C Plate-Modulated Maximum Plate Voltage	4000 V	ClassC;PlateModulated
Typical RF Plate Voltage	4000;3000;2000 V	ClassC;Unmodulated

TUBE TINKER

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and their source documents.

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