



ELECTRONIC TUBE REFERENCE

KDD1

Voltage - Dual Triode (similar) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

European double triode documented in Philips valve tables; available source establishes operating characteristics but does not clearly identify a narrower specialized application.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 220 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Common cathode	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10000 Ω
AMPLIFICATION FACTOR	2
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1.6 W
MAXIMUM CATHODE CURRENT	20 mA
Published target-row operating and characteristic values reviewed.	

SECTION2 Triode	
PLATE RESISTANCE	10000 Ω
AMPLIFICATION FACTOR	2
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	1.6 W
MAXIMUM CATHODE CURRENT	20 mA
<i>Second physical triode section; added to align rows with SectionCount.</i>	

KDD1 is listed in the supplied valve table as a double triode. Published operating and characteristic values were transcribed from its target row.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	Published table operating point
Plate current	3 mA	Published table operating point
Control-grid bias	0 V	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	10000 ohm	Published table characteristic
Amplification factor	2	Published table characteristic
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	220 mA	Published heater/filament rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips E-Z

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

1999 PHILIPS E-Z

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current per section at maximum modulation	10 mA	ClassB;PushPull;TwoTubes;PlateVoltage=90V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output power	0.72 W	ClassB;PushPull;TwoTubes;PlateVoltage=90V
Driver grid voltage	1.57 V RMS	ClassB;PushPull;TwoTubes;PlateVoltage=90V
Load resistance between plates	10000 ohm	ClassB;PushPull;TwoTubes;PlateVoltage=90V
Plate current per section at maximum modulation	14 mA	ClassB;PushPull;TwoTubes;PlateVoltage=135V
Output power	2 W	ClassB;PushPull;TwoTubes;PlateVoltage=135V
Driver grid voltage	1.9 V RMS	ClassB;PushPull;TwoTubes;PlateVoltage=135V
Load resistance between plates	10000 ohm	ClassB;PushPull;TwoTubes;PlateVoltage=135V
Maximum plate voltage per section	150 V	—
Maximum plate dissipation without signal	0.35 W	—
Maximum plate dissipation at full signal	1.6 W	—
Maximum average plate current per section	20 mA	—

TUBE TINKER

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