



ELECTRONIC TUBE REFERENCE

KC1

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Philips triode documented with published operating and characteristic values; available source evidence does not support a narrower functional assignment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 65 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	40000 Ω
TRANSCONDUCTANCE	0.000625 S
AMPLIFICATION FACTOR	25
MAXIMUM PLATE VOLTAGE	150 V
MAXIMUM PLATE DISSIPATION	0.5 W
MAXIMUM CATHODE CURRENT	6 mA
Published target-row operating and characteristic values reviewed.	

KC1 is listed in the supplied valve table as a 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	1.2 mA	Published table operating point
Control-grid bias	1 V	Published table operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	40000 ohm	Published table characteristic
Amplification factor	25	Published table characteristic
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	65 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

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate current	0.3 mA	PlateVoltage=90V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage	-1.5 V	PlateVoltage=90V
Plate resistance	60000 ohm	PlateVoltage=90V
Amplification factor	23	PlateVoltage=90V
Transconductance	380 uS	PlateVoltage=90V
Plate current	1.2 mA	PlateVoltage=135V
Grid voltage	-1.53 V	PlateVoltage=135V
Plate resistance	40000 ohm	PlateVoltage=135V
Amplification factor	25	PlateVoltage=135V
Transconductance	625 uS	PlateVoltage=135V

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	150 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid input capacitance	3.5 pF	—
Plate capacitance	3 pF	—