



ELECTRONIC TUBE REFERENCE

B409

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Early directly heated four-volt receiving triode for battery-operated amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 150 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	5000 Ω
TRANSCONDUCTANCE	0.0018 S
AMPLIFICATION FACTOR	9
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	3 W
MAXIMUM CATHODE CURRENT	15 mA
<i>Published table ratings and electrical characteristics reviewed; ambiguous cells were not inferred.</i>	

B409 is listed in the supplied tube table as a triode. Published electrical 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
Maximum plate voltage	250 V	Published table rating
Plate voltage	250 V	Published operating point
Control-grid bias	18 V	Published operating point
Plate current	12 mA	Published operating point
Power output	3 W	Published operating point

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	5000 ohm	Published table characteristic
Transconductance	12000 μ S	Published table characteristic
Amplification factor	9	Published table characteristic
Heater/filament voltage	4 V	Published heater/filament rating
Heater/filament current	150 mA	Published heater/filament rating



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Typical anode voltage	250 V	Published datasheet value
Normal anode current	12 mA	Published datasheet value
Grid bias	-18 V	Published datasheet value
Typical output power	0.51 W	ClassA; Va=250V; Ra=10kΩ

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum transconductance	—2 mA/V	Published datasheet value
Normal transconductance	1.8 mA/V	Published datasheet value
Internal resistance	5000 Ω	Published datasheet value
Maximum grid-circuit resistance	—1.5 MΩ	Published datasheet value
Interelectrode capacitance 1	5.2 pF	Published datasheet value
Interelectrode capacitance 2	3.1 pF	Published datasheet value
Interelectrode capacitance 3	4.6 pF	Published datasheet value

TUBE TINKER

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