



ELECTRONIC TUBE REFERENCE

E707

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Directly heated power triode for output service, providing 10 watts Class-A output or about 23 watts from two tubes in Class-AB.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	7.2 V / 1.1 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	11000 Ω
TRANSCONDUCTANCE	0.0035 S
AMPLIFICATION FACTOR	5
<i>Published target-row operating and characteristic values reviewed.</i>	

E707 is listed in the supplied valve table as a power 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	800 V	Published European table row
Plate current	40 mA	Published European table row
Control-grid bias	80 V	Published European table row
Power output	10 W	Published European table row
Class-A plate voltage	800 V	ClassA OneTube
Class-A plate current	40 mA	ClassA OneTube
Class-A control-grid bias	80 V	ClassA OneTube
Class-A load resistance	11000 ohm	ClassA OneTube
Class-A power output	10 W	ClassA OneTube
Class-AB plate voltage	800 V	ClassAB TwoTubes
Class-AB plate current per tube	30 mA	ClassAB TwoTubes
Class-AB power output	23 W	ClassAB TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	11000 ohm	Published European table row
Transconductance	3500 μ S	Published European table row
Amplification factor	5	Published European table row
Heater/filament voltage	7.2 V	Published European table row
Heater/filament current	1.1 A	Published European table row

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	58 pF	Published European table row

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