



ELECTRONIC TUBE REFERENCE

F410

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Early directly heated power triode intended for audio-output service. Approximately 25 W plate dissipation, moderate amplification factor, and several-hundred-volt plate capability provide substantial low-frequency output for early receiver and amplifier designs.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	4
NOMINAL HEATER	4 V / 2 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
PLATE RESISTANCE	2500 Ω
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	10
MAXIMUM PLATE VOLTAGE	550 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Published target-row operating and characteristic values reviewed.</i>	

F410 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	550 V	Published table operating point
Plate current	45 mA	Published table operating point
Control-grid bias	36 V	Published table operating point
Power output	5.9 W	Published table operating point
Class-AB plate voltage	550 V	ClassAB TwoTubes
Class-AB plate current per tube	20 mA	ClassAB TwoTubes
Class-AB load resistance	10000 ohm	ClassAB TwoTubes
Class-AB power output	14.6 W	ClassAB TwoTubes
Alternate Class-AB plate current per tube	45 mA	ClassAB TwoTubes
Alternate Class-AB power output	14.4 W	ClassAB TwoTubes

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	7000 ohm	Published table characteristic
Transconductance	2500 μ S	Published table characteristic
Heater/filament voltage	4 V	Published heater/filament rating
Heater/filament current	2 A	Published heater/filament rating

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
'Fension de chauffage	40 V	'Fension de chauffage .. 40V
Heizstrom000a ca	0 a	Heizstrom000a ca.
Courant de chauffage .. env	2 A	Courant de chauffage .. env. 2,0 A
Tension anodique	550 V	Tension anodique .. 550 V
Courant anodique normal	45 mA	Courant anodique normal ... 45 mA
Polarisation négative de grille env	36 V	Polarisation négative de grille env. 36 V
Inclinaison (max.)	8 mA	Inclinaison (max.) 8 mA/V
Inclinaison (norm.)	4 mA	Inclinaison (norm.) 4 mA/V
Résistance intérieure (norm.)	2500 Ohm	Résistance intérieure (norm.) 2500 Ohm
Dissipation anodique	25 W	Dissipation anodique 25 W
PHILIPS	206 a	PHILIPS 206 amh
VF =40V	40 V	VF =40V
Vamax =550V	550 V	Vamax =550V
Snorm=4mA //4	4 mA	Snorm=4mA //4 80
Mazx. Anodenspannuag e 74	900 V	Mazx. Anodenspannuag e 74 900 V
V"L	50 V	... V"L 5\$50 V
Dissipation anodique max	25 w	Dissipation anodique max. 25w
Courant cathodique max. I	60 mA	Courant cathodique max. I 60 mA
Point de commenc. du courant de gnilc V	-2 V	Point de commenc. du courant de gnilc V.. -2V
Puissance utile W (Vg eff	2.5 V	Puissance utile W (Vg eff 2.5 V) 59 W

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Puissance utile W (Vg eff	59 W	Puissance utile W (Vg eff 2.5 V) 59 W

TUBE TINKER

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and their source documents.

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