



ELECTRONIC TUBE REFERENCE

PE0640

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power pentode designed for RF transmitting, linear RF amplification, oscillation, modulation, or RF/LF power-amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	6.3 V / 1.3 A	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.004 S
AMPLIFICATION FACTOR	5.5
MAXIMUM PLATE VOLTAGE	600 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	25 W
MAXIMUM SCREEN DISSIPATION	5 W
MAXIMUM CATHODE CURRENT	130 mA
Promoted where the locked schema directly matches published RF values; frequency/service-specific limits and operating conditions are retained as parameter rows.	

Indirectly heated transmitting pentode for RF or LF power amplification.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V4

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V4

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum plate voltage	600 V	RFPowerTube
Maximum screen voltage	300 V	RFPowerTube
Application	Indirectly heated transmitting pentode for RF or LF power amplification.	SourceDescription
Service category	RF/AF power service as specified in source	RFPowerTube
Heater/filament voltage	6.3 V	RFPowerTube
Heater/filament current	1.3 A	RFPowerTube
Plate voltage	600 V	RFPowerAmplifier
Screen voltage	300 V	RFPowerAmplifier
Plate current	109 mA	RFPowerAmplifier

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating method	Indirect	RFPowerTube
Device class	Pentode	RFPowerTube

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate capacitance	8.7 pF	RFPowerTube
Control-grid capacitance	15 pF	RFPowerTube

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 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
hiltnismiBig niedrigen Heizstromverbrauches, strom (Trennstufe) [1]	600 V	ClassC
hiltnismiBig niedrigen Heizstromverbrauches, strom (Trennstufe) [2]	200 V	ClassC
hiltnismiBig niedrigen Heizstromverbrauches, strom (Trennstufe) [3]	40 W	ClassC
strom [1]	600 V	ClassC
strom [2]	300 V	ClassC
6-V-Akkumulator ermdglicht, eignet sich die H.F.-KlasseB (Telephonie) [1]	600 V	ClassC
6-V-Akkumulator ermdglicht, eignet sich die H.F.-KlasseB (Telephonie) [2]	250 V	ClassC
Sendern, umsomehr da eine betrictliche Schirmgitter) 500 vV	300 V	ClassC
durchaus befriedigend. Die Rohre kann sowohl phie) [1]	600 V	ClassC
durchaus befriedigend. Die Rohre kann sowohl phie) [2]	160 V	ClassC
H.F.-Klasse B (Telephonie) [1]	600 V	ClassB;ClassC
H.F.-Klasse B (Telephonie) [2]	250 V	ClassB;ClassC
im Schirmgitter) [1]	600 V	ClassB;ClassC
im Schirmgitter) [2]	130 V	ClassB;ClassC
In nebenstehender Tabelle sind die bei ver- Schirmgitter) [1]	500 V	ClassB;ClassC
In nebenstehender Tabelle sind die bei ver- Schirmgitter) [2]	160 V	ClassB;ClassC
FE 06740 2073911 600 Heizspannung V	63 V	—
Heizstrom 1If = ca	1.3 A	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
B 0 Sättigungsstrom JI; = ca	8 A	—
V;‘:sz’)ovlm_b T 500 Anodenspannung Vg = max	600 V	—
V;? b s ;5@;{__,'{,?/_ _,gzz Schirmgitterspannung Vg = max	300 V	—
é\.'lll y Héchstzulidssiger Anodenverlust . . . W, = max	25 W	—
y f 400 Gepriifter Anodenverlust Wg	30 W	—
F Hbchstzulédssiger Schirmgitterverlust . Wy, = max	5 W	—
[/ 500 Steilheit bei Vg [1]	600 V	—
[/ 500 Steilheit bei Vg [2]	300 V	—
/ I,	40 mA	—
}’ ,I / Héchstzulissiger Kathodenstrom . . . I = max	130 mA	—
' y Kathode und Heizfaden Vi = max	75 V	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
/ : & ; IgtmA) Anoden/Kathodenkapazitit Cap = ca	8.6 pF	—
/ ; J oo s Steurgitter/Kathodenkapazitit Cgr = ca	14 pF	—
/] / },,;!’/Q;j Anoden/Steurgitterkapazitit Cggy = ca	0.1 pF	—

TUBE TINKER

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and their source documents.

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