



ELECTRONIC TUBE REFERENCE

P50

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
PENTODE

Power-capable pentode documented for amplification, transmitting, pulse, or deflection service. Manufacturer data provide heater, operating, and limiting information for demanding output applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 700 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM SCREEN VOLTAGE	300 V
<i>Published ratings and characteristics promoted from the approved German source.</i>	

A pentode intended for amplification, transmitting, pulse, or deflection service, with published heater, operating, and limiting data.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1953 RFT Rundfunk Technik

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

1953 RFT RUNDFUNK TECHNIK

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizspannung Ur	12.6 V	Heizspannung Ur 12,6 V
Heizstrom 4	700 mA	Heizstrom 4 0,7 A
(HF-Scheitelwert) üg1 – <	55 V	(HF-Scheitelwert) üg1 — <55 V
Aussteuerung Iq	100 mA	Aussteuerung Iq 100 mA
(HF-Scheitelwert) üg1N 110 110 110 100	100 V	(HF-Scheitelwert) üg1N 110 110 110 100 100 V

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anodenspannung U,	1000 V	Anodenspannung U, 1000 V
Schirmgitterspannung Ug	300 V	Schirmgitterspannung Ug 300 V
Gittervorspannung Ue4 –	60 V	Gittervorspannung Ue4 —60 V
Anodenruhestrom I	30 mA	Anodenruhestrom I 30 mA
Schirmgitterstrom Iz2	9 mA	Schirmgitterstrom Iz2 9 mA
Nutzleistung*) N	65 W	Nutzleistung*) N 65 W
Anodenspannung U, 600 700 800 1000	1000 V	Anodenspannung U, 600 700 800 1000 1000 V
Schirmgitterspannung U, 250 250 250 300	300 V	Schirmgitterspannung U, 250 250 250 300 300 V
Gittervorspannung Uo4 –80 –80 –80 –80 –	80 V	Gittervorspannung Uo4 —80 —80 —80 —80 —80 V
Anodenstrom \ 130 130 130 120	120 mA	Anodenstrom \ 130 130 130 120 120 mA
Schirmgitterstrom Iz2 10 10 10 10	10 mA	Schirmgitterstrom Iz2 10 10 10 10 10 mA
Gitterstrom Ig1 7 5	2 mA	Gitterstrom Ig1 7 5 2 mA

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Steuerleistung Nar 4 3,5 1,5	0.5 W	Steuerleistung Nar 4 3,5 1,5 0,5 W

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

[Catalog](#) [Tube types](#) [Full books](#) [Blog](#) [Feedback & corrections](#)

© 2026 Tube Tinker