

ELECTRONIC TUBE REFERENCE

KF1

Voltage Pentode electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
PENTODE

Directly heated 2 V battery pentode designed for RF and IF amplification in portable radio equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	900000 Ω
TRANSCONDUCTANCE	0.0016 S
Published target-row operating and characteristic values reviewed.	

The Telefunken KF1 is a directly heated 2 V battery pentode for RF/IF amplification.



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 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	135 V	Published table operating point
Screen voltage	135 V	Published table operating point
Plate current	3 mA	Published table operating point
Control-grid bias	0 V	Published table operating point
Alternate plate voltage	90 V	OperatingPoint2
Alternate screen voltage	90 V	OperatingPoint2
Alternate plate current	1.1 mA	OperatingPoint2

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	900000 ohm	Published table characteristic
Transconductance	1600 μ S	Published table characteristic
Heater/filament voltage	2 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating
Alternate transconductance	1500 μ S	OperatingPoint2



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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heizspannung oovrivneanesneanraeraieena, Vi =22	2 V	—
Helzstrom ovvvveee et eranonieeenaeneas If - ca. 0,2 ca	200 mA	—
Anodenspannung orriiarrieiiaiaa Va – 135	90 V	—
Schirmgitterspannung covesevenrereaenann., Vg2 - 135	90 V	—
Normaler Anodenstrom ccooveevennvo.en. Ia == 3,0	1.1 A	—
e inere iir S max	1.8 mA/V	—
Norm. Steilhelt vttt S rorm = 1,8	1 mA/V	—
Norm. innerer Widerstand ccovvvviiee n Rinorm=- 0,9	1.5 MΩ	—
L+ t–Vaig2	135 V	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
~48 40 32 24 6 08 0 0F 16 0 80	0 %	—