

ELECTRONIC TUBE REFERENCE

AK1

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
OCTODE

Octode frequency changer for early superheterodyne receivers, combining local-oscillator and mixer functions in one multi-grid valve. Its control characteristic also supports gain regulation in the converter stage.

GENERAL CHARACTERISTICS

BASE DESIGNATION	C35	BASE PINS	8
NOMINAL HEATER	4 V / 650 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Octode	
PLATE RESISTANCE	1900000 Ω
TRANSCONDUCTANCE	0.0006 S
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM CATHODE CURRENT	10 mA
Octode section.	

Telefunken octode frequency changer for superheterodyne receivers, providing a controllable multi-grid mixer function.



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 · Octode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	—
Screen voltage	90 V	—
Screen current	2 mA	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion transconductance	600 μ S	—
Grid-anode capacitance	0.066 pF	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Octode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	4 V	—
Heater current	650 mA	—
Plate voltage	200 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen/auxiliary voltage	90 V	—
Plate current	1.6 mA	—
Screen/auxiliary current	2 mA	—
Transconductance	600 μ S	Conversion
Plate resistance	1900000 ohm	—