

ELECTRONIC TUBE REFERENCE

X42

Voltage Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

HEPTODE

Radio receiver frequency changer designed for superheterodyne mixer and oscillator service. Its multi-grid construction performs signal conversion, often integrating local oscillation and mixing within one valve.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	7
NOMINAL HEATER	4 V / 600 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Heptode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM SCREEN VOLTAGE	100 V
Published ratings and characteristics promoted from the approved datasheet.	

An indirectly heated variable-mu heptode frequency changer with low interelectrode capacitances and high conversion conductance, usable to about 15 metres wavelength.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Osram Valves

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

1937 OSRAM VALVES

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	4 V	Published datasheet value
Heater Current	600 mA	Published datasheet value
Anode Voltage Maximum	250 V	Published datasheet value
Screen Voltage Maximum	100 V	Published datasheet value
Oscillator Anode Voltage	200 V	Published datasheet value

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion Conductance	490 μ S	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

193X Osram

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

193X OSRAM

Section 1 · Heptode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Conversion conductance	490 μ S	Published datasheet value
Conversion impedance	310000 ohm	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control-grid to anode capacitance	0.95 pF	Published datasheet value
Control-grid to oscillator-anode capacitance	0.23 pF	Published datasheet value
Oscillator-grid to oscillator-anode capacitance	1.64 pF	Published datasheet value