

ELECTRONIC TUBE REFERENCE

1U6

Voltage - Radio Detector Converter electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
HEPTODE

Extremely low-consumption battery pentagrid converter for portable superheterodyne receivers. Its very low filament current minimizes battery drain while the multi-grid structure combines oscillator and mixer functions.

GENERAL CHARACTERISTICS

BASE DESIGNATION	7DC	BASE PINS	7
NOMINAL HEATER	1.4 V / 25 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

7DC - TERMINAL PINOUT

TERMINAL	SECTION	ELEMENT	STATUS
PIN1 – F	–	F – Filament	CONNECTED
PIN2 – P	A	P – Plate (Anode)	CONNECTED
PIN3 – G2	A	G2 – Screen Grid	CONNECTED
PIN4 – G1	A	G1 – Control Grid	CONNECTED
PIN5 – G3	A	G3 – Suppressor Grid	CONNECTED
PIN5 – G5	A	G5 – Fifth Grid	CONNECTED
PIN6 – G4	A	G4 – Fourth Grid	CONNECTED
PIN7 – F	–	F – Filament	CONNECTED

SECTION RATINGS

SECTION1 Heptode

PLATE RESISTANCE	550000 Ω
MAXIMUM PLATE VOLTAGE	110 V
MAXIMUM SCREEN VOLTAGE	110 V

Directly heated pentagrid converter for oscillator-mixer service in battery receivers.

A miniature directly heated pentagrid converter for battery-operated radio service, with separate oscillator and mixer functions and published conversion characteristics.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X General Electric Essential Characteristics

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

195X GENERAL ELECTRIC ESSENTIAL CHARACTERISTICS

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	90 V	ClassA; OperatingPoint1
Screen voltage	45 V	ClassA; OperatingPoint1
Control-grid bias	0 V	ClassA; OperatingPoint1
Plate current	0.6 mA	ClassA; OperatingPoint1
Screen current	0.6 mA	ClassA; OperatingPoint1
Oscillator-grid current	0.028 mA	Converter
Oscillator-grid resistor	200000 ohm	Converter
Oscillator plate voltage	90 V	Converter
Oscillator plate current	1.1 mA	Converter
Maximum plate voltage	110 V	—
Maximum screen voltage	65 V	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate resistance	500000 ohm	ClassA; OperatingPoint1
Conversion transconductance	300 uS	ClassA; OperatingPoint1

1961 Tung Sol

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

1961 TUNG SOL

Section 1 · Heptode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.4 V	Nominal
Heater current	25 mA	Nominal

TUBE TINKER

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