ELECTRONIC TUBE REFERENCE

CV782

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
HEPTODE

Low-consumption battery heptode for oscillator and frequency-converter service in portable superheterodyne receivers. Its economical directly heated filament minimizes battery drain while providing useful conversion performance.

General characteristics

BASE DESIGNATION	–	**BASE PINS**	–
NOMINAL HEATER	1.4 V / 50 mA	**PARALLEL HEATER**	– / –
HEATING	Direct	**SERIES OPERATION**	Not specified
CATHODE ARRANGEMENT	Separate cathodes	**SECTION CONSTRUCTION**	Similar

Section ratings

SECTION1 Heptode

PLATE RESISTANCE	600000 Ω
TRANSCONDUCTANCE	0.0003 S
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	67.5 V
MAXIMUM CATHODE CURRENT	5.5 mA

Published ratings and characteristics promoted semantically from source; repeated identical physical sections compressed where applicable.

Commercial-equivalent designation explicitly printed for the 1R5 variable-mu battery heptode frequency changer.

SOURCE OPERATING CONDITIONS

1958 Brimar Radio Valve No 7

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

1958 BRIMAR RADIO VALVE NO 7

Section 1 · Heptode

OTHER		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Voltage	**90 V**	—
Plate Current	**1.6 mA**	—
Screen Voltage	**67.5 V**	—
Screen Current	**3.2 mA**	—

CHARACTERISTIC		
PARAMETER	**PUBLISHED VALUE**	**CONDITION / NOTE**
Plate Resistance	**600000 ohm**	—
Conversion Conductance	**300 µS**	—
Operating Frequency Maximum	**20 MHz**	—

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