



ELECTRONIC TUBE REFERENCE

6999

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Subminiature directly heated power pentode for wearable and portable battery equipment with very low current consumption.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	2.64 V / 50 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.00165 S
MAXIMUM PLATE VOLTAGE	145 V
MAXIMUM SCREEN VOLTAGE	95 V
MAXIMUM PLATE DISSIPATION	0.75 W
MAXIMUM SCREEN DISSIPATION	0.12 W
MAXIMUM CATHODE CURRENT	7 mA
<i>Section 1 extracted from 6999.pdf.</i>	

Subminiature filament-type pentode designed as a power amplifier for wearable and portable equipment, with flexible wire leads.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Raytheon

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

1938 RAYTHEON

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	145 V	Plate Voltage 145 volts AN
Grid #2 Voltage	95 V	Grid #2 Voltage 95 volts
Total Cathode Current	7 mA	Total Cathode Current 7 ma. : AN
Plate Dissipation	0.75 W	Plate Dissipation 0.75 watts :
Grid #2 Dissipation	0.12 W	Grid #2 Dissipation 0.12 watts E .
Filament Current	50 mA	Filament Current 50 ma.
Plate Voltage	67.5 V	Plate Voltage 67.5 volts :
Grid #2 Voltage	67.5 V	Grid #2 Voltage 67.5 volts .
Grid #1 Voltage	-4 V	Grid #1 Voltage —4.0 volts \
Plate Current	4 mA	Plate Current 4.0 ma. . RED DOT
Grid #2 Current	0.9 mA	Grid #2 Current 0.9 ma. :
Transconductance	1650 μ S	Transconductance 1650 pmhos ,
L.oad Resistance	12 k Ω	L.oad Resistance 12 kilohms _ 6 54321
Peak AF Signal Voltage	4 V	Peak AF Signal Voltage 4.0 volts Lead I Plate
A A resistor of	680 Ω	A A resistor of 680 ohms is connected in parallel with leads 2 and center tap lead 4. ' Lead 4 Filament center

TUBE TINKER

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