



ELECTRONIC TUBE REFERENCE

5800

Voltage - Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Subminiature low-filament-power tetrode designed as an electrometer amplifier. Very high input resistance and tiny heater demand suit sensitive portable instrumentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	1.25 V / 10 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode**MAXIMUM PLATE VOLTAGE** 25 V

Victoreen 5800 low-filament-power directly heated subminiature electrometer tetrode, nominal filament 1.25 V, 10 mA, published current range 9–13 mA. Absolute maximum POSITIVE voltage on any electrode 25 V; this is not a normal operating point. Source gives 250 μ A as a total cathode-current characteristic, without an explicit maximum qualifier. Previous max_cathode_current of 12 μ A was actually a nominal PLATE-current characteristic from manufacturer plate-current test (anode 4.5 V, accelerator grid arrangement), so removed rather than treated as cathode limit. Manufacturer requires light-tight and electrostatic shielding to avoid photoelectric grid currents, treated envelope to reduce leakage, and application of filament power about one second before positive electrode potentials; remove positive potential before filament cools. Published electrode capacitances.

Subminiature low-filament-power tetrode designed as an electrometer amplifier with very high input resistance.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1950 Victoreen

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

1950 VICTOREEN

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.12–1.38 V	—
Filament Current	9 mA	Nominal

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Cathode Current	12 μ A	—
PositiveVoltageOnAnyElectrode	25 V	—
PlateCurrentAt250V	6–18 μ A	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid1Capacitance	2 pF	—
Grid2Capacitance	2 pF	—
Plate Capacitance	3 pF	—

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