



ELECTRONIC TUBE REFERENCE

8091

Voltage Regulator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

VOLTAGEREGULATOR

Victoreen corona-discharge regulator providing approximately 4 kV stabilization at very low current for high-voltage reference and regulated-supply applications.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	— / —	PARALLEL HEATER	— / —
HEATING	Indirect; cold cathode	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Voltage Regulator	
REGULATOR VOLTAGE	4000 V
MINIMUM REGULATOR CURRENT	0.05 mA
MAXIMUM REGULATOR CURRENT	0.6 mA
STARTING VOLTAGE	4400 V
MAINTAINING VOLTAGE	4000 V

Corona-discharge voltage-regulator tube for approximately 4 kV regulation service.

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 · Voltage Regulator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
RegulatedVoltage	4000 V	—
VoltageRegulation	50 V	Published current range
Temperature Coefficient	70 mV/C	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
StartingOrBreakdownVoltage	4400 V	—
MinimumRegulatorCurrent	50 μ A	—
MaximumRegulatorCurrent	600 μ A	—