



ELECTRONIC TUBE REFERENCE

5803

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Victoreen 5803 directly heated subminiature electrometer triode for sensitive low-current DC amplification and radiation-measuring instruments.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
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 Triode	
TRANSCONDUCTANCE	0.0001 S
AMPLIFICATION FACTOR	2
MAXIMUM CATHODE CURRENT	0.5 mA
<i>Victoreen 5803 low-microphonic electrometer triode for radiation instruments, replaces VX-32B. Filament nominal 1.25 V 10 mA, 1.1-1.5 V allowed; filament resistance 112-137 Ω. Max total cathode current 500 μA, grid leakage $\geq 10^{14} \Omega$. Mu 2.0 (range 1.8-2.2), gm 100 μmhos = 0.0001 A/V. Plate current 60-120 μA under manufacturer test conditions; original scan of bias/test labels ambiguous, so no specific bias scalar promoted. No max plate voltage published.</i>	

Subminiature electrometer triode for radiation-measuring instrumentation and very-low-current amplifier 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 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.1–1.5 V	—
Filament Current	10 mA	Nominal
LeakageResistance	100000000000000 ohm	GridToAllOtherElements
Amplification Factor	1.8–2.2	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Cathode Current	500 uA	—
Plate Current	60–120 uA	—

TUBE TINKER

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