



ELECTRONIC TUBE REFERENCE

5802

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Victoreen 5802 (VX-32B) directly heated low-mu subminiature instrument triode for radiation detectors, electrometer-like DC circuits and portable meters.

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	
PLATE RESISTANCE	25000 Ω
TRANSCONDUCTANCE	0.000065 S
AMPLIFICATION FACTOR	1.6
MAXIMUM CATHODE CURRENT	0.5 mA
<i>Victoreen 5802 VX-32B low-mu subminiature electrometer-like DC instrument triode. Filament nominal 1.25 V 10 mA, range 9-13 mA; max total cathode current 500 μA, nominal 250 μA. Mu 1.6, gm 65 μmhos (0.000065 A/V), rp 25000 Ω. Grid leakage $\geq 10^{14} \Omega$, grid capacitance ≤ 2 pF, plate capacitance ≤ 3 pF. At filament 10 mA, plate 10 V, grid -3 V, plate current 37-110 μA. No max plate voltage given.</i>	

Subminiature low-mu triode for DC amplifiers and measuring instruments where low current and low heater power are important.

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	1.12–1.5 V	—
Filament Current	20 mA	Nominal
Amplification Factor	1.5	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total Cathode Current	100 μ A	—
Plate Current	25 μ A	Typical

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
CapacitancePlateGrid	3 pF	—