



ELECTRONIC TUBE REFERENCE

4NE9

Voltage Tetrode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Directly heated electrometer tetrode intended for very-low-current measurement. Its low-power filament and high input resistance suit sensitive instrumentation circuits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	1.25 V / 26 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Tetrode

MAXIMUM PLATE VOLTAGE	12 V
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Tesla 4NE9 directly heated oxide-coated electrometric tetrode for measuring circuits, filament 1.25 V at 26 mA (permitted filament voltage 1.1-1.3 V). Manufacturer clearly distinguishes anode typical 10 V from maximum anode 12 V, with space-grid voltage 8 V typical and maximum 10 V, control-grid bias approximately -2.5 V. Original text reports very low electrometric control-grid current about 3×10^{-13} A, and gm as 60 nA/V (electrode-specific; do not promote to static gm without independent confirmation). Grid connection brought to bulb top for high insulation; silicone-treated glass must be handled using clean gloves. Modified S7/10 lead base, not inferred canonical socket code.

Directly heated electrometer tetrode intended for measurement applications.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

195X Tesla

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

195X TESLA

Section 1 · Tetrode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterVoltageNominal	1.25 V	Nominal
HeaterCurrentNominal	26 mA	Nominal
Maximum Plate Voltage	10 V	—