



ELECTRONIC TUBE REFERENCE

4278A

Power - Tetrode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TETRODE

Standard Valves directly heated tetrode with manufacturer-published operating data. Its filamentary construction supports power-output applications in professional electronic equipment.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 15.6 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tetrode	
PLATE RESISTANCE	105000 Ω
MAXIMUM PLATE VOLTAGE	750 V
MAXIMUM SCREEN VOLTAGE	600 V
MAXIMUM PLATE DISSIPATION	75 W
MAXIMUM SCREEN DISSIPATION	50 W
MAXIMUM GRID DISSIPATION	30 W
MAXIMUM CATHODE CURRENT	600 mA
Ratings and characteristics extracted from 4278A.pdf.	

The 4278A is a tetrode described in the Standard Valves datasheet, using a directly heated filament cathode and published operating data.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1937 Standard Valves

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

1937 STANDARD VALVES

Section 1 · Tetrode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Total emission	6 A	Published datasheet value
Grid-anode capacitance	0.6 pF	Published datasheet value
Input capacitance	31 pF	Published datasheet value
Output capacitance	294 pF	Published datasheet value

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum frequency for above ratings	30 MHz	Published datasheet value



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1946 Standard Telephone and Cables

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

1946 STANDARD TELEPHONE AND CABLES

Section 1 · Tetrode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament voltage	10 volts	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
gt Vp =	3000 volts	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Vgz =	750 volts	—
Maximum anode voltage for frequency o	50 Mc	—
Direct anode voltage 3,000 2,500 2,250 1,750 3,000	2500 volts	—
Direct screen-grid voltage 500 500 500 500 500	500 volts	—
-220	-220 volts	—
Carrier output 400 400 600 580 1,000	850 watts	—
Anode dissipation 800 800 300 295 500	400 watts	—
} SCREEN- GRID YOLTAGE=	500 VOLTS	—