



ELECTRONIC TUBE REFERENCE

2054

Power - Triode (over 1000V 100W) electronic tube

CONSOLIDATED TECHNICAL DATA
1 SECTION
CONSTRUCTION
TRIODE

Power triode intended for power-amplifier service, with manufacturer operating data centered on useful output power and comparatively heavy plate operation. Documentation supports treatment as a power device rather than a small-signal voltage amplifier.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	4 V / 7 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	34000 V
MAXIMUM PLATE DISSIPATION	300000 W
MAXIMUM GRID DISSIPATION	200000 W
MAXIMUM CATHODE CURRENT	1000 A
Water-cooled super-power triode; long-pulse UHF service.	

Water-cooled super-power ceramic-metal triode for long-pulse RF power amplification through the UHF region.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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

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Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	4 V	—
Heater/filament current	7000 A	—
Filament current typical minimum	6800 A	—
Filament current typical maximum	7200 A	—
Filament voltage typical minimum	3.6 V	—
Filament voltage typical maximum	4.5 V	—
Minimum warm-up before plate voltage	60 s	—
Peak positive-pulse plate voltage	34 kV	LongPulse
Average plate dissipation	300 kW	LongPulse
Useful peak RF output	5 MW	440MHz
Operating frequency	440 MHz	LongPulseRF

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-to-plate capacitance	150 pF	—
Grid-to-cathode capacitance	1600 pF	—
Plate-to-cathode capacitance	1 pF	LessThan

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling method	Water cooled	—

TUBE TINKER

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