



ELECTRONIC TUBE REFERENCE

BR194

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Very-high-power forced-air-cooled Marconi transmitting triode. Approximately 40 kW plate dissipation, 15 kV plate capability, and very high peak-current capacity support severe professional RF service through the HF range.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	13 V / 240 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.038 S
AMPLIFICATION FACTOR	34
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	40000 W
MAXIMUM GRID DISSIPATION	1800 W
MAXIMUM CATHODE CURRENT	100 A

Forced-air-cooled transmitting triode for high-power HF amplifier and oscillator service.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1955 Marconi

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

1955 MARCONI

Section 1 · Triode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	13 V	—
Filament Current	240 A	—
Amplification Factor	34	—
Transconductance	38000 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	15000 V	—
Maximum Anode Dissipation	40000 W	—
Maximum Grid Dissipation	1800 W	—
Maximum/Peak Cathode Current	100 A	—
Frequency at Full Ratings	25 MHz	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Grid Capacitance	60 pF	—
Anode-Cathode Capacitance	1.5 pF	—
Grid-Cathode Capacitance	95 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

An independent reference for electronic tubes, vacuum tubes,
and their source documents.

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