



ELECTRONIC TUBE REFERENCE

BR191B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

High-power Marconi transmitting triode intended for professional RF service. The available manufacturer record does not support sufficiently reliable detailed operating figures in this pass, so the description remains conservative rather than inferring unverified ratings or frequency limits.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 29 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
AMPLIFICATION FACTOR	29
MAXIMUM PLATE VOLTAGE	6200 V
MAXIMUM PLATE DISSIPATION	3000 W
MAXIMUM GRID DISSIPATION	300 W
MAXIMUM CATHODE CURRENT	10 A

Forced-air-cooled VHF transmitting triode for television, FM broadcast, and industrial 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	12.6 V	—
Filament Current	29 A	—
Amplification Factor	29	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Anode Voltage	6200 V	—
Maximum Anode Dissipation	3000 W	—
Maximum Grid Dissipation	300 W	—
Maximum/Peak Cathode Current	10 A	—
Frequency at Full Ratings	220 MHz	—
Typical RF Output Power	5.5 kW	Grounded-grid Class C, to 110 MHz

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-Grid Capacitance	18.5 pF	—
Anode-Cathode Capacitance	0.5 pF	—
Grid-Cathode Capacitance	19 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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