



ELECTRONIC TUBE REFERENCE

BR137B

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Industrial transmitting power triode intended for RF amplification, oscillation, or modulation. Manufacturer data emphasize substantial plate power, professional transmitter operation, and construction suited to continuous high-power service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	19.5 V / 415 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.035 S
AMPLIFICATION FACTOR	43
MAXIMUM PLATE VOLTAGE	15000 V
MAXIMUM PLATE DISSIPATION	20000 W
MAXIMUM GRID DISSIPATION	3000 W
Highest published service maximums promoted; cooling and operating conditions preserved in parameters.	

The Marconi BR137B is a improved forced-air-cooled high-power transmitting triode for 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

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	19.5 V	—
Heater/filament current	415 A	—
Maximum plate voltage	15000 V	—
Maximum plate dissipation	20000 W	—
Maximum grid dissipation	3000 W	—
Maximum frequency at full ratings	50 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	43	—
Transconductance	35000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	50 pF	—
Plate-cathode capacitance	3 pF	—
Grid-cathode capacitance	100 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

TUBE TINKER

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and their source documents.

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