



ELECTRONIC TUBE REFERENCE

BR137

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	18 V / 400 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.03 S
AMPLIFICATION FACTOR	40
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 BR137 is a forced-air-cooled high-power tungsten-filament 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	18 V	—
Heater/filament current	400 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	40	—
Transconductance	30000 μ S	—

CAPACITANCE

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	55 pF	—
Plate-cathode capacitance	2 pF	—
Grid-cathode capacitance	80 pF	—

CONSTRUCTION

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

TUBE TINKER

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and their source documents.

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