



ELECTRONIC TUBE REFERENCE

BR155

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	17 V / 130 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.018 S
AMPLIFICATION FACTOR	50
MAXIMUM PLATE VOLTAGE	10000 V
MAXIMUM PLATE DISSIPATION	7500 W
MAXIMUM GRID DISSIPATION	350 W
Highest published service maximums promoted; cooling and operating conditions preserved in parameters.	

The Marconi BR155 is a forced-air-cooled tungsten-filament transmitting triode for vhf 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	17 V	—
Heater/filament current	130 A	—
Maximum plate voltage	10000 V	—
Maximum plate dissipation	7500 W	—
Maximum grid dissipation	350 W	—
Maximum frequency at full ratings	100 MHz	—
Plate-modulated maximum plate voltage	8000 V	PlateModulated
Maximum filament starting current	195 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	50	—
Transconductance	18000 uS	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	31 pF	—
Plate-cathode capacitance	3 pF	—
Grid-cathode capacitance	44.5 pF	—

CONSTRUCTION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cooling	Forced air	—

TUBE TINKER

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