



## ELECTRONIC TUBE REFERENCE

## BR154

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      | 3.3 V / 11.5 A    | PARALLEL HEATER      | — / —         |
| HEATING             | Indirect          | SERIES OPERATION     | Not specified |
| CATHODE ARRANGEMENT | Separate cathodes | SECTION CONSTRUCTION | Similar       |

## SECTION RATINGS

|                                                                                                               |        |
|---------------------------------------------------------------------------------------------------------------|--------|
| SECTION 1 Triode                                                                                              |        |
| AMPLIFICATION FACTOR                                                                                          | 25     |
| MAXIMUM PLATE VOLTAGE                                                                                         | 1500 V |
| MAXIMUM PLATE DISSIPATION                                                                                     | 250 W  |
| <i>Highest published service maximums promoted; cooling and operating conditions preserved in parameters.</i> |        |

The Marconi BR154 is a indirectly heated forced-air-cooled transmitting triode for grounded-grid vhf amplification.

## 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                | 3.3 V           | —                |
| Heater/filament current                | 11.5 A          | —                |
| Maximum plate voltage                  | 1500 V          | —                |
| Maximum plate dissipation              | 250 W           | —                |
| Maximum frequency at full ratings      | 220 MHz         | —                |
| Minimum cathode heating time           | 2 min           | —                |
| Typical grounded-cathode plate voltage | 1500 V          | —                |
| Typical grounded-cathode output power  | 290 W           | —                |
| Typical grounded-grid output power     | 325 W           | —                |

| CHARACTERISTIC       |                 |                  |
|----------------------|-----------------|------------------|
| PARAMETER            | PUBLISHED VALUE | CONDITION / NOTE |
| Amplification factor | 25              | —                |

| CAPACITANCE               |                 |                  |
|---------------------------|-----------------|------------------|
| PARAMETER                 | PUBLISHED VALUE | CONDITION / NOTE |
| Grid-plate capacitance    | 10.3 pF         | —                |
| Plate-cathode capacitance | 0.5 pF          | —                |
| Grid-cathode capacitance  | 2.6 pF          | —                |

| CONSTRUCTION |                 |                  |
|--------------|-----------------|------------------|
| PARAMETER    | PUBLISHED VALUE | CONDITION / NOTE |
| Cooling      | Forced air      | —                |