

ELECTRONIC TUBE REFERENCE

B142

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

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Thoriated-tungsten transmitting triode for HF amplification, oscillator, and Class-B modulator service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	10 V / 10 A	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
AMPLIFICATION FACTOR	35
MAXIMUM PLATE VOLTAGE	4000 V
MAXIMUM PLATE DISSIPATION	400 W
Highest service rating promoted from the printed class-of-service tables.	

The Marconi B142 is a thoriated-tungsten transmitting triode intended for high-frequency amplification, oscillation, and Class-B modulation.

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
Filament voltage	10 V	—
Filament current	10 A	—
Maximum plate voltage	4000 V	—
Maximum plate dissipation	400 W	—
Maximum frequency natural cooling	30 MHz	—
Maximum frequency reduced ratings	75 MHz	—
Typical plate voltage	4000 V	ClassC
Typical plate current	450 mA	ClassC
Typical plate output	1800 W	ClassC

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	35	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	56 pF	—
Plate-cathode capacitance	88 pF	—
Grid-cathode capacitance	14 pF	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

