



ELECTRONIC TUBE REFERENCE

B309

Voltage - Dual Triode (similar high frequency) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TRIODE

Marconi miniature dual triode for audio and VHF RF amplifier or frequency-changer service, with published frequency limits extending to 200 MHz as an amplifier and 400 MHz as a converter.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 150 mA	PARALLEL HEATER	6.3 V / 300 mA
HEATING	Indirect	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	55
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
Representative section for two equal triode systems.	

SECTION2 Triode	
PLATE RESISTANCE	10000 Ω
TRANSCONDUCTANCE	0.0055 S
AMPLIFICATION FACTOR	55
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	2.5 W
<i>Second physical triode section; added to align rows with SectionCount.</i>	

The Marconi B309 is a miniature dual triode for audio and vhf rf amplifier/frequency-changer 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
Series heater voltage	12.6 V	—
Series heater current	150 mA	—
Parallel heater voltage	6.3 V	—
Parallel heater current	300 mA	—
Maximum plate voltage	300 V	—
Maximum plate dissipation per section	2.5 W	—
Typical AF plate voltage	250 V	ClassA
RF amplifier frequency limit	200 MHz	—
Frequency-changer frequency limit	400 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	55	—
Transconductance	5500 μ S	—
Plate resistance	10000 ohm	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	1.6 pF	—
Grid-cathode capacitance	2.5 pF	—
Plate-cathode capacitance	0.4 pF	—