



ELECTRONIC TUBE REFERENCE

DET29

Power - Triode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Conduction-cooled microwave triode for coaxial oscillator and amplifier circuits. Its compact low-inductance construction supports fundamental operation to approximately 5 GHz and frequency multiplication to roughly 7 GHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 500 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Triode	
TRANSCONDUCTANCE	0.024 S
AMPLIFICATION FACTOR	55
MAXIMUM PLATE VOLTAGE	1000 V
MAXIMUM PLATE DISSIPATION	10 W
MAXIMUM GRID DISSIPATION	0.25 W
MAXIMUM CATHODE CURRENT	500 mA
Highest reliable published rating promoted; remaining microwave/RF operating data retained as parameters.	

The Marconi DET29 is a conduction-cooled microwave triode for coaxial oscillator/amplifier service to 5 ghz and multiplication to 7 ghz.

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	6.3 V	—
Heater/filament current	500 mA	—
Maximum plate voltage	1000 V	—
Maximum plate dissipation	10 W	—
Maximum grid dissipation	0.25 W	—
Maximum cathode/plate current	500 mA	—
Maximum/service frequency	7000 MHz	—
Mean plate current	40 mA	—
Peak plate voltage	1000 V	—
Oscillator/amplifier frequency limit	5000 MHz	—
Frequency multiplier limit	7000 MHz	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	55	—
Transconductance	24000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	1.2 pF	—
Plate-cathode capacitance	0.025 pF	—
Grid-cathode capacitance	3.4 pF	—

TUBE TINKER

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