



ELECTRONIC TUBE REFERENCE

DET27

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

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TRIODE

Thoriated-tungsten power triode for HF amplification, oscillation, and audio power-amplifier service. Rated for approximately 250 W plate dissipation and 2.7 kV plate voltage for medium-power transmitter and modulator stages.

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

SECTION 1 Triode	
TRANSCONDUCTANCE	0.009 S
AMPLIFICATION FACTOR	22
MAXIMUM PLATE VOLTAGE	2700 V
MAXIMUM PLATE DISSIPATION	250 W
MAXIMUM GRID DISSIPATION	20 W
MAXIMUM CATHODE CURRENT	4 A
Highest reliable published rating promoted; remaining microwave/RF operating data retained as parameters.	

The Marconi DET27 is a thoriated-tungsten power triode for hf amplifier, oscillator, and audio power-amplifier 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	10 V	—
Heater/filament current	10 A	—
Maximum plate voltage	2700 V	—
Maximum plate dissipation	250 W	—
Maximum grid dissipation	20 W	—
Maximum cathode/plate current	4 A	—
Maximum/service frequency	3 MHz	—
Peak plate voltage	6000 V	—
Maximum grid current	2 A	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Amplification factor	22	—
Transconductance	9000 μ S	—

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid-plate capacitance	24 pF	—
Plate-cathode capacitance	75 pF	—
Grid-cathode capacitance	14 pF	—

TUBE TINKER

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

