



ELECTRONIC TUBE REFERENCE

YL1000

Power - Pentode Single (NOT beam) (under 10W) electronic tube

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Quick-heating directly heated VHF power pentode for mobile RF amplification and frequency multiplication to approximately 200 MHz.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	9
NOMINAL HEATER	1.1 V / 880 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
TRANSCONDUCTANCE	0.0045 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	5 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>RF/AF power pentode.</i>	

Directly heated VHF power pentode for RF power-amplifier or frequency-multiplier service in portable and mobile equipment.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1959 Telefunken

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1959 TELEFUNKEN

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	120 V	—
Plate Current	30 mA	—
Transconductance	4500 μ S	—
Heater Warmup Time	0.5 s	Maximum
Maximum Full-Rating Frequency	175 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Useful Output Power	5.15 W	FrequencyMultiplier; 25/50MHz



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

Published test conditions and operating points. Values on this page are preserved as reported by this source.

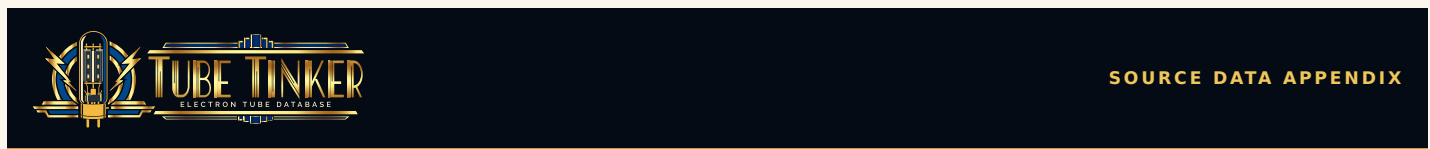
1963 MULLARD

Section 1 · Pentode

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Filament Voltage	1.1 V	—
Filament Current	880 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heating Time to 70 Percent Output	0.5 s	Maximum
Plate-Grid Capacitance Maximum	0.15 pF	—
Input Capacitance	6.5 pF	—
Output Capacitance	3.8 pF	—
Grid-Filament Capacitance	1.5 pF	—
Transconductance	4300 μ S	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Maximum Plate Supply Voltage	500 V	—
Maximum Plate Voltage	300 V	—
Maximum Plate Dissipation	5 W	—
Maximum Screen Supply Voltage	500 V	—
Maximum Screen Voltage	300 V	—
Maximum Screen Dissipation	1 W	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1967 Mullard Receiving Tubes for Maintenance

Published test conditions and operating points. Values on this page are preserved as reported by this source.

1967 MULLARD RECEIVING TUBES FOR MAINTENANCE

Section 1 · Pentode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ir	880 mA	Published in approved YL1000.pdf target datasheet; Section1
Ik max	50 mA	Published in approved YL1000.pdf target datasheet; Section1

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Tbulb max	200 °C	Published in approved YL1000.pdf target datasheet; Section1
T he conditions for	175 MHz	Published in approved YL1000.pdf target datasheet; Section1

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Ca-il <	0.15 pF	Published in approved YL1000.pdf target datasheet; Section1
Cin	6 pF	Published in approved YL1000.pdf target datasheet; Section1
Cout	3.5 pF	Published in approved YL1000.pdf target datasheet; Section1
CiI-I	1.5 pF	Published in approved YL1000.pdf target datasheet; Section1

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
la	30 mA	Published in approved YL1000.pdf target datasheet; Section1
li2	2.3 mA	Published in approved YL1000.pdf target datasheet; Section1
gm	4.3 mA	Published in approved YL1000.pdf target datasheet; Section1

TUBE TINKER

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