



ELECTRONIC TUBE REFERENCE

EL85

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

CONSOLIDATED TECHNICAL
DATA

1 SECTION
CONSTRUCTION
PENTODE

Output pentode rated for approximately 6 W anode dissipation, suitable for mobile-equipment RF amplification to about 120 MHz or conventional audio-frequency output service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Pentode	
PLATE RESISTANCE	100000 Ω
TRANSCONDUCTANCE	0.0032 S
MAXIMUM PLATE DISSIPATION	6 W
MAXIMUM SCREEN DISSIPATION	1 W
<i>Published Ferranti ratings and characteristics promoted from the supplied source.</i>	

OUTPUT PENTODE Output pentode rated for 6W anode dissipation intended for use in mobile equipment as a r.f. amplifier at frequencies L8S up (0 120Mc/s or as on a.f. output valve. H EATER Vh 6.3 V r, 200 mA



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1961 Ferranti Technical Handbook

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

1961 FERRANTI TECHNICAL HANDBOOK

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	6.3 V	—
Heater Current	200 mA	—
MaximumRFApplicationFrequency	120 MHz	RFAmplifier
Application	AF output	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Mullard

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

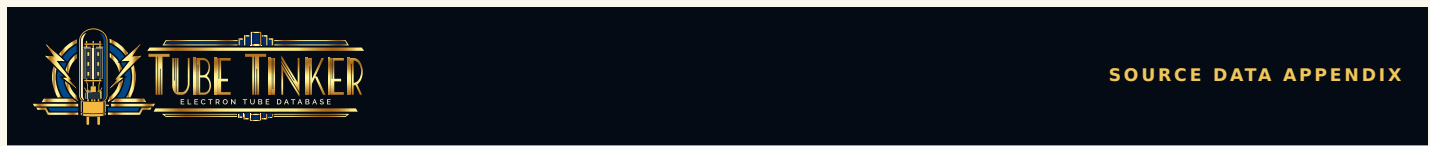
1963 MULLARD

Section 1 · Pentode

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	6.3 V	—
HeaterOrFilamentCurrent	200 mA	—
PlateToGridCapacitanceMax	0.2 pF	—
Input Capacitance	4.3 pF	—
Output Capacitance	5.1 pF	—
Plate Voltage	250 V	—
Screen Voltage	250 V	—
Plate Current	24 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen Current	4.1 mA	—
Grid Voltage	-13.5 V	—
MaximumRFApplicationFrequency	120 MHz	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Power Output	2.5 W	ClassA
Power Output	6.8 W	PushPull;ClassAB



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

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output pentode roted for	6	Characteristic
up (	120 a	Characteristic
gm	3.1 mA	CHARACTERISTICS
ra	100	CHARACTERISTICS

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	250 V	OPERATING CONDITIONS AS SINGLE VALVE C LASS u A "
EL8S Output pentode rated for	6 W	OPERATING CONDITIONS AS SINGLE VALVE C LASS u A "
up to	120 a	OPERATING CONDITIONS AS SINGLE VALVE C LASS u A "
Va	250 V	OPERATING CONDITIONS FOR TWO VALV ES IN CLA SS u Rn

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
$V_{g\bullet}$	250 V	OPERATING CONDITIONS FOR TWO VALVES IN CLASS u Rn
V_a	300 V	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
$V_{g\bullet}$	175 V	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
$V_{g,}$	30 V	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
V_{gJ}	-60 V	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
V_{g1}	-100 V	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
Output pentode rated for	6 W	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
up to	120 a	R.F. OPERATING CONDITIONS FOR SINGLE VALVE, CLASS He"
$V_{aIn}) \max$	550 V	LIMITING VALUES
$V_a \max$	300 V	LIMITING VALUES
V_g	550 V	LIMITING VALUES
V_g	300 V	LIMITING VALUES
V_g	100 V	LIMITING VALUES
$V_{g1} \max . (lg1 = +$	1.3 ma	LIMITING VALUES
EL8S Output pentode rated for	6	LIMITING VALUES
up to	120 a	LIMITING VALUES
$I.V_o " V_g$	250 V	LIMITING VALUES
$2.V_o = V_g^2 = 200V$	200	LIMITING VALUES

TUBE TINKER

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