



ELECTRONIC TUBE REFERENCE

HL13C

Voltage - Triode (single) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
TRIODE

Medium-impedance triode for general amplifier service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	British7Pin	BASE PINS	4
NOMINAL HEATER	13 V / 200 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION1 Triode	
PLATE RESISTANCE	12000 Ω
TRANSCONDUCTANCE	0.0033 S
AMPLIFICATION FACTOR	40
MAXIMUM PLATE VOLTAGE	200 V
MAXIMUM PLATE DISSIPATION	2 W
MAXIMUM CATHODE CURRENT	10 mA
<i>Published characteristics and limiting values.</i>	

The Mullard HL13C is a medium-impedance triode for detector and low-frequency amplifier service in DC/AC mains receivers.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1958 Mullard Receiving Tubes

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

1958 MULLARD RECEIVING TUBES

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	—
Plate current	5 mA	—
Control-grid voltage	-3.7 V	—
Cathode resistor	740 0hm	—

OTHER

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Voltage gain	30 ratio	RCAmplifier
Output voltage	36 V	RCAmplifier



SOURCE OPERATING CONDITIONS

1963 Mullard

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

1963 MULLARD

Section 1 · Triode

CHARACTERISTICS

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	13 V	—
Heater Current	200 mA	—
Heating Time	60 s	—
Plate Voltage	200 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	5 mA	—
Grid Voltage	-3.7 V	—
Transconductance	3300 uS	—
Amplification Factor	40 ratio	—
Plate Resistance	12000 ohm	—
Plate-Grid Capacitance	3.1 pF	—
Grid-Cathode Capacitance	3.9 pF	—
Plate-Cathode Capacitance	4.6 pF	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Cathode Bias Resistor	740 ohm	—
Line Voltage	200 V	ResistanceCoupledAmplifier
Plate Current	0.65 mA	ResistanceCoupledAmplifier
Grid Voltage	-2.6 V	ResistanceCoupledAmplifier
Optimum Load Resistance	160000 ohm	ResistanceCoupledAmplifier
Maximum Output Voltage	36 V	ResistanceCoupledAmplifier; Distortion=5Percent
Maximum Plate Voltage	200 V	—
Maximum Plate Dissipation	2 W	—
Maximum Cathode Current	10 mA	—