



ELECTRONIC TUBE REFERENCE

UF86

Voltage - Pentode electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

Series-heater low-level audio-frequency pentode designed for resistance-capacitance-coupled AF voltage amplification. Mullard documentation also provides triode-connected operation, but sensitive audio voltage gain is its primary function.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	12.6 V / 100 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	2500000 Ω
TRANSCONDUCTANCE	0.002 S
MAXIMUM PLATE VOLTAGE	300 V
MAXIMUM SCREEN VOLTAGE	300 V
MAXIMUM PLATE DISSIPATION	1 W
MAXIMUM SCREEN DISSIPATION	0.2 W
MAXIMUM CATHODE CURRENT	6 mA
<i>Published valve ratings and characteristics promoted where applicable; additional data retained as parameters.</i>	

Series-heater low-level audio-frequency pentode for resistance-capacitance coupled AF voltage-amplifier service.



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 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Low-noise audio voltage amplifier / microphone preamplifier	—
Triode-connected operation	Published	TriodeConnection



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

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Output capacitance	5.3 pF	—
Input capacitance	3.8 pF	—
Grid-to-plate capacitance maximum	0.05 pF	—

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	200 V	—
Screen-grid voltage	140 V	—
Plate current	3 mA	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Screen-grid current	600 μA	—
Control-grid voltage	-2 V	—
Transconductance	2000 μS	—
Plate resistance	2.5 MΩ	—
Screen-to-control-grid amplification factor	38 ratio	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Stage gain	115 ratio	RCCoupledAFAmplifier;Vb=200V;Ra=100k
Output voltage	38 Vrms	RCCoupledAFAmplifier;Vb=200V;Ra=100k

TUBE TINKER

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