



ELECTRONIC TUBE REFERENCE

DAF70

Voltage - Pentode or Tetrode (under 100V) electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

DIODE-PENTODE

Subminiature directly heated diode-pentode for battery equipment, combining a detector diode with an audio-frequency pentode. Its exceptionally economical 1.25 V, 25 mA filament suits compact low-power portable electronics.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	8
NOMINAL HEATER	1.25 V / 25 mA	PARALLEL HEATER	— / —
HEATING	Direct	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Diode

No fixed ratings recorded.

Published Mullard/Philips ratings and characteristics promoted where applicable; additional values retained as parameters.

SECTION2 Pentode	
PLATE RESISTANCE	400000 Ω
TRANSCONDUCTANCE	0.00004 S
AMPLIFICATION FACTOR	16
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM SCREEN VOLTAGE	90 V
MAXIMUM CATHODE CURRENT	1.3 mA
<i>Published Mullard/Philips ratings and characteristics promoted where applicable; additional values retained as parameters.</i>	

Subminiature directly heated AF pentode combined with a single diode, suitable for battery operation. It includes resistance-coupled AF amplifier and Class A output operating data.



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 · Diode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	Detector diode	—

1958 MULLARD RECEIVING TUBES

Section 2 · Pentode

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	AF amplifier	—



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 2 · Pentode

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode-grid capacitance	0.15 pF	—
Output capacitance	4.3 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	67.5 V	—

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current	1 mA	—
Screen current	250 uA	—
Transconductance	40 uS	—
Plate resistance	400000 ohm	—
Amplification factor g1-g2	16	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	67.5 V	ClassA Va=67.5 V
Control-grid voltage	-1.8 V	ClassA Va=67.5 V
Anode current	400 uA	ClassA Va=67.5 V
Screen current	85 uA	ClassA Va=67.5 V
Load resistance	150 kohm	ClassA Va=67.5 V
Output power	10.5 mW	ClassA Va=67.5 V
Total distortion	10 %	ClassA Va=67.5 V
Anode voltage	90 V	ClassA Va=90 V
Control-grid voltage	-2.6 V	ClassA Va=90 V
Anode current	600 uA	ClassA Va=90 V
Screen current	135 uA	ClassA Va=90 V
Load resistance	150 kohm	ClassA Va=90 V
Output power	20 mW	ClassA Va=90 V
Total distortion	10 %	ClassA Va=90 V
Plate voltage maximum	90 V	—
Screen voltage maximum	90 V	—
Cathode current maximum	1.3 mA	—
Screen current maximum	250 uA	—

TUBE TINKER

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and their source documents.

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