



ELECTRONIC TUBE REFERENCE

EL822

Power - Pentode (NOT beam) electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

PENTODE

High-transconductance video-output power pentode designed for television service. Its power-capable wideband construction provides the current and voltage swing required by demanding video-output stages.

GENERAL CHARACTERISTICS

BASE DESIGNATION	B9A	BASE PINS	9
NOMINAL HEATER	6.3 V / 750 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Pentode	
PLATE RESISTANCE	90000 Ω
TRANSCONDUCTANCE	0.0125 S
AMPLIFICATION FACTOR	23
MAXIMUM PLATE VOLTAGE	275 V
MAXIMUM SCREEN VOLTAGE	275 V
MAXIMUM PLATE DISSIPATION	12 W
MAXIMUM SCREEN DISSIPATION	2.5 W
MAXIMUM CATHODE CURRENT	60 mA
<i>Published electrical characteristics and ratings promoted from supplied datasheet.</i>	

VIDEO OUTPUT PENTODE Video output pentode having a high mutual conductance. EL822



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
Input capacitance	12 pF	—
Output capacitance	6 pF	—

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode current	42.5 mA	V _a =250V; V _{g2} =250V
Screen current	4.8 mA	V _a =250V; V _{g2} =250V
Triode transconductance	14600 μ S	TriodeConnection
Triode plate resistance	1560 ohm	TriodeConnection



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
Video output pentode having a high mutual conductance. EL8	22 a	Characteristic

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Va	250 V	CHARACTERISTICS
gm	12.5 V	CHARACTERISTICS
ra	90 k0	CHARACTERISTICS
Va	150 V	CHARACTERISTICS
Vgl	-2.5 V	CHARACTERISTICS
gm	14.6	CHARACTERISTICS
ra	1.56 k0	CHARACTERISTICS
Vg	550 V	CHARACTERISTICS
Vg2 max	275 V	CHARACTERISTICS

TUBE TINKER

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