



ELECTRONIC TUBE REFERENCE

UM34

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TUNING INDICATOR

Electron-beam fluorescent tuning indicator using a 12.6 V heater and otherwise electrically equivalent to EM34, providing visual receiver tuning response.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12.6 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION 1 Tuning Indicator	
MAXIMUM PLATE VOLTAGE	250 V
Tuning indicator with two display systems of different sensitivity for 100 mA series-heater service.	

SECTION 2 Triode	
MAXIMUM PLATE VOLTAGE	250 V
Tuning indicator with two display systems of different sensitivity for 100 mA series-heater service.	

The Mullard UM34 is an electron-beam tuning indicator using a 12.6 V, 0.1 A heater; it is otherwise identical to the EM34.

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1951 Mullard Valve and Service Manual

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

1951 MULLARD VALVE AND SERVICE MANUAL

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target Voltage	200 V	—
Target Current	0.55 mA	—
Control Voltage for Maximum Shadow Angle	0 V	—
Control Voltage for Minimum Shadow Angle	-4.2 V	Deflector plate set 1
Control Voltage for Minimum Shadow Angle	-12.5 V	Deflector plate set 2
Maximum Target Voltage	550 V	—
Maximum Electrode Voltage	275 V	—
Maximum Heater-Cathode Voltage	100 V	—

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1957 Philips Receiving and Amplifying Tubes

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

1957 PHILIPS RECEIVING AND AMPLIFYING TUBES

Section 1 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater Voltage	12.6 V	—
Heater Current	100 mA	—
DisplaySystems	2	DifferentSensitivity



SOURCE DATA APPENDIX

SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Philips Electron Tubes Handbook V1

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

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 1 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	100 V	Indicator
Series resistor	1 MOhm	Indicator
Anode current at grid 0 V	0.4 mA	Indicator
Grid voltage for minimum shadow	-2.5 V	System1
Supply voltage	200 V	Indicator
Anode current at grid 0 V	1.4 mA	Indicator
Grid voltage for minimum shadow	-4.2 V	System1

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 2 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage for minimum shadow	-8 V	System2; SupplyVoltage=100V

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid voltage for minimum shadow	-12.5 V	System2; SupplyVoltage=200V

TUBE TINKER

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