

ELECTRONIC TUBE REFERENCE

UM84

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TUNINGINDICATOR

Series-heater tuning indicator with amplifying triode, designed for receiver tuning or modulation-control service with a sensitive fluorescent visual display.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	12 V / 100 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode	
MAXIMUM PLATE VOLTAGE	250 V
MAXIMUM PLATE DISSIPATION	0.5 W
Indicator tube with amplifying triode for tuning indication or modulation-control service.	

SECTION2 Tuning Indicator	
MAXIMUM PLATE VOLTAGE	250 V
Indicator tube with amplifying triode for tuning indication or modulation-control service.	

UM84 is a TuningIndicator device in the supplied Philips literature. Indicator tube with amplifying triode for tuning indication or modulation-control service.

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 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage	170 V	TriodeSection
Anode/display resistor	470 kOhm	TriodeSection
Grid resistor	3 MOhm	TriodeSection
Grid voltage	0 V	TriodeSection
Plate-plus-display current	0.3 mA	TriodeSection; GridVoltage=0V
Grid voltage	-15 V	TriodeSection
Plate-plus-display current	0.04 mA	TriodeSection; GridVoltage=-15V

1963 PHILIPS ELECTRON TUBES HANDBOOK V1

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Indicator current	0.6 mA	IndicatorSection; GridVoltage=0V
Indicator current	1.05 mA	IndicatorSection; GridVoltage=-15V
Shadow length	15–25 mm	GridVoltage=0V
Shadow length	0 mm	GridVoltage=-15V

1999 Philips E-Z

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

1999 PHILIPS E-Z
Section 2 · Tuning Indicator

CHARACTERISTICS		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Caractéristiques d'utilisation (D relié a 1'anode)	1 a	Caractéristiques d'utilisation (D relié a 1'anode)

TUBE TINKER

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