



ELECTRONIC TUBE REFERENCE

DM70

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

TUNING INDICATOR

Miniature directly heated tuning indicator for visual tuning and signal-level indication in low-power battery-operated receivers.

GENERAL CHARACTERISTICS

BASE DESIGNATION	Subminiature	BASE PINS	8
NOMINAL HEATER	1.4 V / 25 mA	PARALLEL HEATER	– / –
HEATING	Direct	SERIES OPERATION	Capable
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Tuning Indicator	
MAXIMUM PLATE VOLTAGE	90 V
MAXIMUM PLATE DISSIPATION	0.045 W
MAXIMUM CATHODE CURRENT	0.3 mA
Published ratings/characteristics promoted where applicable; additional values retained as parameters.	

Directly heated tuning indicator tube for visual indication in low-power receivers.



SOURCE OPERATING CONDITIONS

1953 Amperex

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

1953 AMPEREX

Section 1 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Supply voltage maximum	300 V	—
Supply voltage at zero plate current	450 V	—



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1963 Amperex Condensed

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

1963 AMPEREX CONDENSED

Section 1 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage	1.4 V	Published rating
Heater current	25 mA	Published rating

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Target/anode voltage	85 V	TuningIndicator
Target/anode current	0.17 mA	TuningIndicator



1963 Mullard

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

1963 MULLARD

Section 1 · Tuning Indicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
HeaterOrFilamentVoltage	1.4 V	—
HeaterOrFilamentCurrent	25 mA	—

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	85 V	Battery;Pin4Earthed
Plate Current	170 uA	Battery
GridVoltageForCompleteExtinction	-10 V	Battery
FluorescentColumnLength	10 mm	Battery
Plate Voltage	250 V	Mains
GridVoltageForCompleteExtinction	-34 V	Mains
PlateVoltageMinimum	45 V	—
GridResistanceMaximum	10 Mohm	—



SOURCE DATA APPENDIX

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 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Voltage	85 V	BatteryOperation;Pin4Earthed

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate Current	170 μA	BatteryOperation;Pin4Earthed
Fluorescent Column Length	11 mm	BatteryOperation;Pin4Earthed
Grid Voltage for Complete Extinction	-10 V	BatteryOperation;Pin4Earthed
Plate Voltage	250 V	MainsOperation;Through1.8MohmSeriesResistor
Plate Current	105 μA	MainsOperation;Through1.8MohmSeriesResistor
Fluorescent Column Length	10 mm	MainsOperation
Grid Voltage for Complete Extinction	-34 V	MainsOperation
Supply Voltage Zero Current	450 V	PublishedLimits
Supply Voltage	300 V	PublishedLimits
Anode Voltage Without Series Resistor	90 V	PublishedLimits
Minimum Anode Voltage	45 V	PublishedLimits
Anode Dissipation at $\leq 90V$	0.025 W	PublishedLimits
Anode Dissipation at 200V	0.01 W	PublishedLimits
Cathode Current	0.3 mA	PublishedLimits



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1968 Mazda Belvu

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

1968 MAZDA BELVU

Section 1 · Tuning Indicator

APPLICATION		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Application	TuningIndicator text	—



1999 Philips 0-D

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

1999 PHILIPS 0-D

Section 1 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Anode voltage	85 V	—
Anode current	170 uA	—
Light bar length	11 mm	—
Maximum no-load anode voltage	450 V	—
Minimum anode voltage	45 V	—

TUBE TINKER

An independent reference for electronic tubes, vacuum tubes, and their source documents.

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