



ELECTRONIC TUBE REFERENCE

EM1

Tuning Indicator electronic tube

CONSOLIDATED TECHNICAL DATA

2 SECTIONS

CONSTRUCTION

TRIODE-TUNING INDICATOR

Philips electron-ray tuning indicator with integral control triode and fluorescent display for visual receiver tuning or signal-strength indication.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	BASE PINS	—
NOMINAL HEATER	6.3 V / 200 mA	PARALLEL HEATER	— / —
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Dissimilar

SECTION RATINGS

SECTION1 Triode

No fixed ratings recorded.

Published target-row operating and characteristic values reviewed.

SECTION2 Tuning Indicator

No fixed ratings recorded.

Fluorescent tuning indicator with integral control triode

EM1 is listed in the supplied valve table as a electron-ray tuning indicator. Published operating and characteristic values were transcribed from its target row.



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

1938 Philips Miniwatt Vacuum Tube Catalog

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

1938 PHILIPS MINIWATT VACUUM TUBE CATALOG

Section 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Plate voltage	250 V	Published table operating point
Plate current	0.095 mA	Published table operating point
Control-grid bias	5 V	Published table operating point
Target supply voltage	250 V	TuningIndicator
Target current	0.095 mA	TuningIndicator

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater/filament voltage	6.3 V	Published heater/filament rating
Heater/filament current	200 mA	Published heater/filament rating
Grid voltage closed indication	0 V	TuningIndicator
Grid voltage open indication	5 V	TuningIndicator



SOURCE OPERATING CONDITIONS

[SOURCE PDF](#)

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 1 · Triode

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Triode anode series resistance	2 MΩ	Section1

1999 PHILIPS E-Z

Section 2 · Tuning Indicator

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Fluorescent screen voltage	250 V	Section2
Alternative fluorescent screen voltage	200 V	Section2