



ELECTRONIC TUBE REFERENCE

E14101GH

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION

CONSTRUCTION

CATHODERAY

Fourteen-centimeter instrument CRT with electrostatic focusing and deflection, designed for precision oscilloscope and electronic measurement display service.

GENERAL CHARACTERISTICS

BASE DESIGNATION	14-pin all glass	BASE PINS	14
NOMINAL HEATER	6.3 V / 300 mA	PARALLEL HEATER	– / –
HEATING	Indirect	SERIES OPERATION	Not specified
CATHODE ARRANGEMENT	Separate cathodes	SECTION CONSTRUCTION	Similar

SECTION RATINGS

SECTION 1 Cathode Ray

No fixed ratings recorded.

Datasheet states E14-101GH is equivalent to E14-100GH except that it has no rotating coil; common electrical data carried over from the supplied E14-100GH sheet.

Instrument cathode-ray tube equivalent to E14-100GH but without the rotating coil. The record captures the published heater data, principal electrical characteristics, ratings, and other section-specific values from the supplied datasheet.

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 · Cathode Ray

CHARACTERISTIC		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Final accelerator voltage Vg7(1)	7 kv	Equivalent to E14-100GH; no rotating coil. Quick Reference Data

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage V _h	6.3 V	Equivalent to E14-100GH; no rotating coil. Heating
Heater current I _h	300 mA	Equivalent to E14-100GH; no rotating coil. Heating
adjusted for optimum spot size at a beam current of	5 a	Equivalent to E14-100GH; no rotating coil. Deflection
Line width at screen centre l.w approx	0.35 w	Equivalent to E14-100GH; no rotating coil. Deflection
Astigmatism control voltage	75 V	Equivalent to E14-100GH; no rotating coil. Focusing
Control grid circuit resistance max	1 MΩ	Equivalent to E14-100GH; no rotating coil. Screen
means that a current of max	30 a	Equivalent to E14-100GH; no rotating coil. Screen
Maximum screen dissipation	2 W	Equivalent to E14-100GH; no rotating coil. Promoted published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid to all other elements C _{gl}	6 pF	Equivalent to E14-100GH; no rotating coil. Capacitances
Cathode and heater to all other elements C _{kh/R}	3 pF	Equivalent to E14-100GH; no rotating coil. Capacitances

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
The sensitivity at a deflection less than	75 a	Equivalent to E14-100GH; no rotating coil. Capacitances
sensitivity at a deflection of	25 a	Equivalent to E14-100GH; no rotating coil. Capacitances
Final accelerator voltage	10 kV	Equivalent to E14-100GH; no rotating coil. Capacitances
Geometry control electrode voltage	1500 V	Equivalent to E14-100GH; no rotating coil. Capacitances
Interplate shield voltage	1500 A	Equivalent to E14-100GH; no rotating coil. Capacitances
Background illumination control voltage	0 V	Equivalent to E14-100GH; no rotating coil. Capacitances