

ELECTRONIC TUBE REFERENCE

E1012GH

Specialized - Cathode Ray electronic tube

CONSOLIDATED TECHNICAL DATA

1 SECTION
CONSTRUCTION
CATHODERAY

Ten-centimeter flat-faced double-gun instrument CRT with post-deflection acceleration and beam blanking, designed for simultaneous precision waveform presentation.

GENERAL CHARACTERISTICS

BASE DESIGNATION	—	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

SECTION1 Cathode Ray
No fixed ratings recorded.
Published section data promoted where applicable.

10 cm flat-faced double-gun instrument cathode-ray tube with post-deflection acceleration and beam blanking. 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 Vg8(	8 V	Quick Reference Data

OTHER		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Heater voltage Vi	6.3 V	Heating
Heater current If	300 mA	Heating
Post deflection accelerator helix resistance: min	100 MΩ	Deflection
Final accelerator voltage Vgg(fl)	3000 V	Deflection
Inter-gun shield voltage Vg,	10004100 V	Deflection
Geometry control electrode voltage Vg6	6 V	Deflection
beam blanking of a current Igg(fl) =10 nA AVg3 max	10 a	Deflection
Inter-gun shield voltage Vg7 max	7 V	Limiting Values
Geometry control electrode voltage Vg6 max	6 V	Limiting Values
Beam blanking electrode voltage Vg3 max	3 V	Focusing
cathode positive Ve max	200 V	Focusing
cathode negative "Vig max	125 v	Focusing
Average cathode current Ik max	300 uA	Focusing

PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Control grid circuit resistance Rg	1 MΩ	Focusing
4) The sensitivity at a deflection of less than	4 a	Focusing
fer from the sensitivity at a deflection of	25 a	Focusing
Maximum screen dissipation	3 W	Promoted published datasheet value

CAPACITANCE		
PARAMETER	PUBLISHED VALUE	CONDITION / NOTE
Grid No.1 to all other elements Cgl	1 pF	Capacitances
Cathode to all other elements Ck S5 pF	5 pF	Capacitances

TUBE TINKER

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